

Federal Way Link Extension

Draft Environmental Impact Statement

CONCEPTUAL DESIGN DRAWINGS

Appendix F



Contents

SR 99 Alternative: pp. 1-25

- S 216th West Station Option: pp. 26-31
- S 216th East Station Option: pp. 32-36
- Kent/Des Moines SR 99 Median Station Option: pp. 37-42
- Kent/Des Moines SR 99 East Station Option: pp. 43-49
- Kent/Des Moines HC Campus Station Option: pp. 50-57
- Kent/Des Moines HC Campus Station Option from S 216th West Station Option: pp. 58-63
- S 260th West Station Option: pp. 64-71
- S 260th East Station Option: pp. 72-78
- S 272nd Redondo Trench Station Option: pp. 79-88
- Federal Way SR 99 Station Option: pp. 89-93

I-5 Alternative: pp. 94-118

- Kent/Des Moines At-Grade Station Option: pp. 119-124
- Kent/Des Moines SR 99 East Station Option: pp. 125-130
- Landfill Median Alignment Option: pp.131-134
- Federal Way I-5 Station Option: pp. 135-138
- Federal Way S 320th Park-and-Ride Station Option: pp. 139-143

SR 99 to I-5 Alternative: pp. 144-151

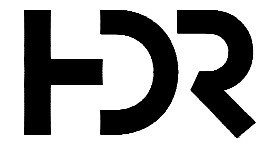
I-5 to SR 99 Alternative: pp. 152-160

- S 260th West Station Option: pp. 161-163

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DRAFT EIS - CONCEPTUAL DESIGN SR 99 ALTERNATIVE

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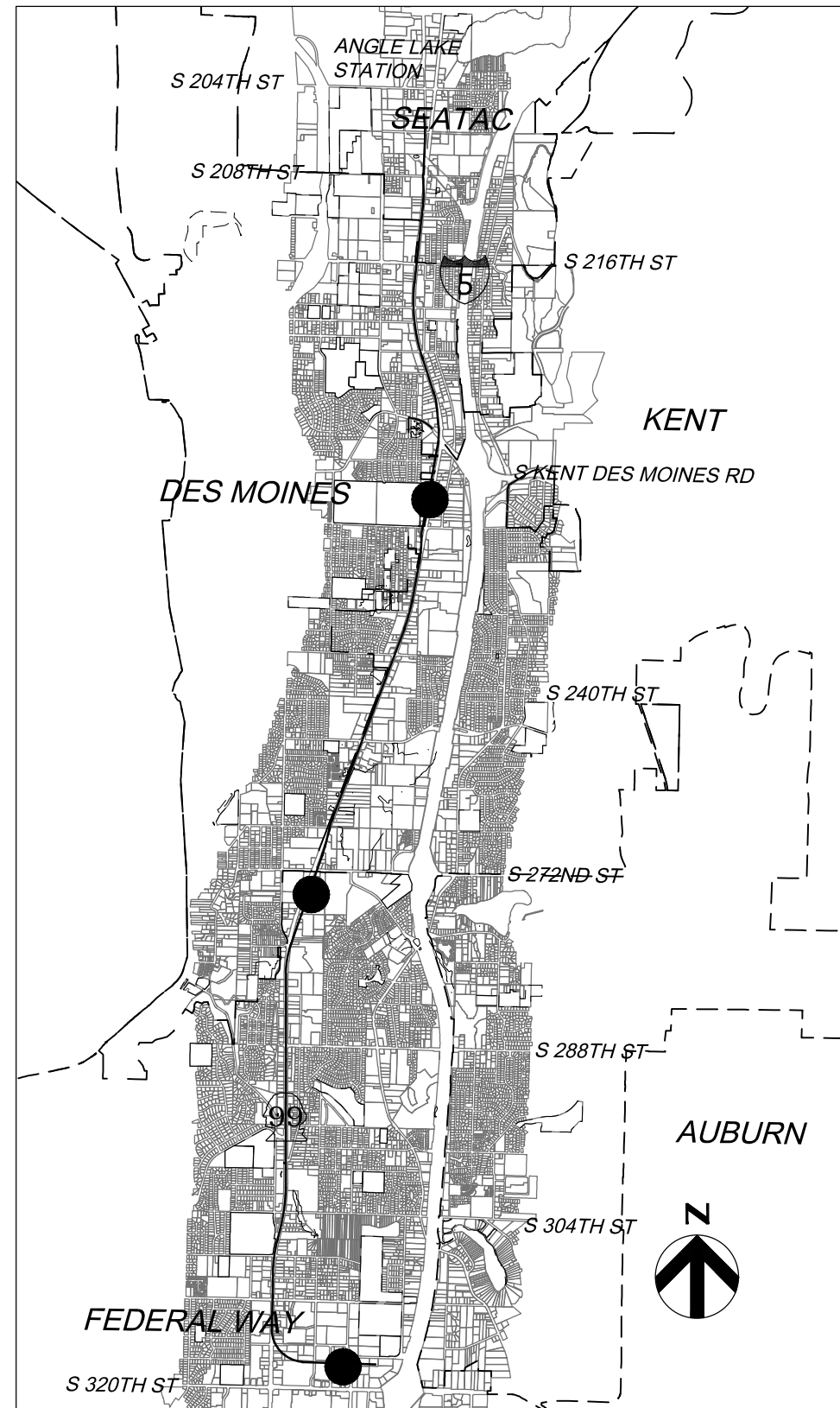
SOUND TRANSIT FEDERAL WAY LINK EXTENSION

DRAFT EIS CONCEPTUAL DESIGN SR 99 ALTERNATIVE

APRIL 2015

SHEET KEY

SR 99 ALTERNATIVE
S 216TH WEST STATION OPTION (POTENTIAL ADDITIONAL STATION)
S 216TH EAST STATION OPTION (POTENTIAL ADDITIONAL STATION)
KENT/DES MOINES HC CAMPUS STATION OPTION
KDM HC CAMPUS STATION OPTION FROM S 216TH WEST STATION OPTION
KENT/DES MOINES SR 99 EAST STATION OPTION
KENT/DES MOINES SR 99 MEDIAN STATION OPTION
S 260TH WEST STATION OPTION (POTENTIAL ADDITIONAL STATION)
S 260TH EAST STATION OPTION (POTENTIAL ADDITIONAL STATION)
S 272ND REDONDO TRENCH STATION OPTION
FEDERAL WAY SR 99 STATION OPTION



PROJECT LOCATION MAP

SOUND TRANSIT FEDERAL WAY LINK EXTENSION

Sheet No.	Drawing No.	Sheet Title
SR 99 ALTERNATIVE		
1	SR99-A00-GX00	COVER SHEET
2	SR99-A00-GX01	SHEET INDEX
3	SR99-A00-GX02	SHEET INDEX KEYMAP
4	SR99-A1-PP01	TRACK PLAN AND PROFILE STA 7+25 TO STA 30+00
5	SR99-A2-PP02	TRACK PLAN AND PROFILE STA 30+00 TO STA 56+00
6	SR99-A3-PP03	TRACK PLAN AND PROFILE STA 56+00 TO STA 82+00
7	SR99-A4-PP04	TRACK PLAN AND PROFILE STA 82+00 TO STA 108+00
8	SR99-A5-PP05	TRACK PLAN AND PROFILE STA 108+00 TO STA 134+00
9	SR99-A6-PP06	TRACK PLAN AND PROFILE STA 134+00 TO STA 160+00
10	SR99-A7-PP07	TRACK PLAN AND PROFILE STA 160+00 TO STA 186+00
11	SR99-A8-PP08	TRACK PLAN AND PROFILE STA 186+00 TO STA 212+00
12	SR99-A9-PP09	TRACK PLAN AND PROFILE STA 212+00 TO STA 238+00
13	SR99-A10-PP10	TRACK PLAN AND PROFILE STA 238+00 TO STA 264+00
14	SR99-A11-PP11	TRACK PLAN AND PROFILE STA 264+00 TO STA 290+00
15	SR99-A12-PP12	TRACK PLAN AND PROFILE STA 290+00 TO STA 316+00
16	SR99-A13-PP13	TRACK PLAN AND PROFILE STA 316+00 TO STA 342+00
17	SR99-A14-PP14	TRACK PLAN AND PROFILE STA 342+00 TO STA 368+00
18	SR99-A15-PP15	TRACK PLAN AND PROFILE STA 368+00 TO STA 394+00
19	SR99-A16-PP16	TRACK PLAN AND PROFILE STA 394+00 TO STA 419+15.90
20	FWLE_SR99_AP009	KENT DES MOINES SR99 WEST STATION - SITE PLAN
21	FWLE_SR99_AX009	KENT DES MOINES SR99 WEST STATION - SECTIONS
22	FWLE_SR99_AP007	S 272ND REDONDO STATION - SITE PLAN
23	FWLE_SR99_AX007	S 272ND REDONDO STATION - SECTIONS
24	FWLE_SR99_AP003	FEDERAL WAY TRANSIT CENTER STATION - SITE PLAN
25	FWLE_SR99_AX003	FEDERAL WAY TRANSIT CENTER STATION - SECTIONS
S 216TH WEST STATION OPTION (POTENTIAL ADDITIONAL STATION)		
26	SR99-B00-GX02	SHEET INDEX KEYMAP
27	SR99-B1-PP01	TRACK PLAN AND PROFILE STA 15+00 TO STA 30+00
28	SR99-B2-PP02	TRACK PLAN AND PROFILE STA 30+00 TO STA 56+00
29	SR99-B3-PP03	TRACK PLAN AND PROFILE STA 56+00 TO STA 82+36.28
30	FWLE_SR99_AP010	S 216TH WEST STATION OPTION - SITE PLAN
31	FWLE_SR99_AX010	S 216TH WEST STATION OPTION - SECTIONS
S 216TH EAST STATION OPTION (POTENTIAL ADDITIONAL STATION)		
32	SR99-C00-GX02	SHEET INDEX KEYMAP
33	SR99-C1-PP02	TRACK PLAN AND PROFILE STA 20+00 TO STA 34+00
34	SR99-C2-PP03	TRACK PLAN AND PROFILE STA 34+00 TO STA 59+91.74
35	FWLE_SR99_AP011	S 216TH EAST STATION OPTION - SITE PLAN
36	FWLE_SR99_AX011	S 216TH EAST STATION OPTION - SECTIONS
KENT/DES MOINES SR 99 MEDIAN STATION OPTION		
37	SR99-D00-GX02	SHEET INDEX KEYMAP
38	SR99-D1-PP04	TRACK PLAN AND PROFILE STA 10+00 TO STA 26+00
39	SR99-D2-PP05	TRACK PLAN AND PROFILE STA 26+00 TO STA 52+00
40	SR99-D3-PP06	TRACK PLAN AND PROFILE STA 52+00 TO STA 63+99.96
41	FWLE_S99_AP005	KENT/DES MOINES SR 99 MEDIAN STATION OPTION - SITE PLAN
42	FWLE_S99_AX005	KENT/DES MOINES SR 99 MEDIAN STATION OPTION - SECTIONS
KENT/DES MOINES SR99 EAST STATION OPTION		
43	SR99-E00-GX01	SHEET INDEX KEYMAP
44	SR99-E01-PP04	TRACK PLAN AND PROFILE STA 17+45.77 TO STA 41+00
45	SR99-E02-PP05	TRACK PLAN AND PROFILE STA 41+00 TO STA 67+00
46	SR99-E03-PP06	TRACK PLAN AND PROFILE STA 67+00 TO STA 93+00
47	SR99-E04-PP07	TRACK PLAN AND PROFILE STA 93+00 TO STA 107+68.31
48	FWLE_SR99_AP006	KENT/DES MOINES SR 99 EAST STATION OPTION - SITE PLAN
49	FWLE_SR99_AX006	KENT/DES MOINES SR 99 EAST STATION OPTION - SECTIONS

KENT/DES MOINES HC CAMPUS STATION OPTION		
50	SR99-F00-GX02	SHEET INDEX KEYMAP
51	SR99-F1-PP03	TRACK PLAN AND PROFILE STA 20+00 TO STA 45+00
52	SR99-F2-PP04	TRACK PLAN AND PROFILE STA 45+00 TO STA 71+00
53	SR99-F3-PP05	TRACK PLAN AND PROFILE STA 71+00 TO STA 97+00
54	SR99-F4-PP06	TRACK PLAN AND PROFILE STA 97+00 TO STA 122+00
55	SR99-F5-PP07	TRACK PLAN AND PROFILE STA 122+00 TO STA 134+88.36
56	FWLE_S99_AP004	KENT/DES MOINES HC CAMPUS STATION OPTION - SITE PLAN
57	FWLE_S99_AX004	KENT/DES MOINES HC CAMPUS STATION OPTION - SECTIONS
KENT/DES MOINES HC CAMPUS STATION OPTION FROM S. 216TH WEST STATION OPTION		
58	SR99-F00-GX02	SHEET INDEX KEY MAP
59	SR99-F6-PP01	TRACK PLAN AND PROFILE STA 15+00 TO STA 30+00
60	SR99-F7-PP02	TRACK PLAN AND PROFILE STA 30+00 TO STA 56+00
61	SR99-F8-PP03	TRACK PLAN AND PROFILE STA 56+00 TO STA 82+00
62	SR99-F9-PP04	TRACK PLAN AND PROFILE STA 82+00 TO STA 108+00
63	SR99-F10-PP05	TRACK PLAN AND PROFILE STA 108+00 TO STA 121+52.74
S 260TH WEST STATION OPTION (POTENTIAL ADDITIONAL STATION)		
64	SR99-G00-GX02	SHEET INDEX KEYMAP
65	SR99-G1-PP05	TRACK PLAN AND PROFILE STA 20+00 TO STA 23+00
66	SR99-G2-PP06	TRACK PLAN AND PROFILE STA 23+00 TO STA 49+00
67	SR99-G3-PP07	TRACK PLAN AND PROFILE STA 49+00 TO STA 75+00
68	SR99-G4-PP08	TRACK PLAN AND PROFILE STA 75+00 TO STA 101+00
69	SR99-G5-PP09	TRACK PLAN AND PROFILE STA 101+00 TO STA 111+87.66
70	FWLE_S99_AP013	S 260TH WEST STATION OPTION - SITE PLAN
71	FWLE_S99_AX013	S 260TH WEST STATION OPTION - SECTIONS
S 260TH EAST STATION OPTION (POTENTIAL ADDITIONAL STATION)		
72	SR99-H00-GX02	SHEET INDEX KEYMAP
73	SR99-H1-PP07	TRACK PLAN AND PROFILE STA 20+00 TO STA 23+00
74	SR99-H2-PP08	TRACK PLAN AND PROFILE STA 23+00 TO STA 49+00
75	SR99-H3-PP09	TRACK PLAN AND PROFILE STA 49+00 TO STA 75+00
76	SR99-H4-PP10	TRACK PLAN AND PROFILE STA 75+00 TO STA 80+98.42
77	FWLE_S99_AP012	S 260TH EAST STATION OPTION - SITE PLAN
78	FWLE_S99_AX012	S 260TH EAST STATION OPTION - SECTIONS
I - NOT USED		
S 272ND REDONDO TRENCH STATION OPTION		
79	SR99-J00-GX02	SHEET INDEX KEYMAP
80	SR99-J1-PP08	TRACK PLAN AND PROFILE STA 20+00 TO STA 31+00
81	SR99-J2-PP09	TRACK PLAN AND PROFILE STA 31+00 TO STA 57+00
82	SR99-J3-PP10	TRACK PLAN AND PROFILE STA 57+00 TO STA 83+00
83	SR99-J4-PP11	TRACK PLAN AND PROFILE STA 83+00 TO STA 109+00
84	SR99-J5-PP12	TRACK PLAN AND PROFILE STA 109+00 TO STA 136+00
85	SR99-J6-PP13	TRACK PLAN AND PROFILE STA 135+00 TO STA 161+00
86	SR99-J7-PP14	TRACK PLAN AND PROFILE STA 161+00 TO STA 174+00.00
87	FWLE_S99_AP002	S 272ND REDONDO TRENCH STATION OPTION - SITE PLAN
88	FWLE_S99_AX002	S 272ND REDONDO TRENCH STATION OPTION - SECTIONS
FEDERAL WAY SR 99 STATION OPTION		
89	SR99-K00-GX02	SHEET INDEX KEYMAP
90	SR99-K1-PP15	TRACK PLAN AND PROFILE STA 20+00 TO STA 44+00
91	SR99-K2-PP16	TRACK PLAN AND PROFILE STA 44+00 TO STA 51+23.50
92	FWLE_S99_AP008	FEDERAL WAY SR 99 STATION OPTION - SITE PLAN
93	FWLE_S99_AX008	FEDERAL WAY SR 99 STATION OPTION - SECTIONS

ABBREVIATIONS

B BP	BEGIN POINT
C CTR CL CS	CENTER CENTERLINE CURVE TO SPIRAL
D DO DWG	DESIGN OPTION DRAWING
E E EL EP EX	EAST/ELECTRICAL ELEVATION END POINT EXISTING
F FWLE FWTC	FEDERAL WAY LINK EXTENSION FEDERAL WAY TRANSIT CENTER
G G	GAS
H HC HORZ	HIGHLINE COLLEGE HORIZONTAL
K KC KCM KDM Kv	KING COUNTY KING COUNTY METRO KENT/DES MOINES KILOVOLTS
M MPH	MILES PER HOUR
N N NB	NORTH NORTHBOUND
O OE	OVERHEAD ELECTRICAL
P PC PL PS PT PVC PVI PVT	POINT OF CURVATURE PLACE POINT OF SWITCH POINT OF TANGENCY POINT OF VERTICAL CURVATURE POINT OF VERTICAL INTERSECTION POINT OF VERTICAL TANGENCY
R R RD ROW	RADUIIS ROAD RIGHT OF WAY
S S SB SC SF SR ST	SOUTH SOUTH BOUND SPIRAL TO CURVE SQUARE FEET STATE ROUTE STREET, SPIRAL TO TANGENT, or SOUND TRANSIT STATION
T TPSS TS TYP	TRACTION POWER SUBSTATION TANGENT TO SPIRAL TYPICAL
V V	VELOCITY

EXISTING FEATURES

	RIGHT OF WAY LINE
	LOT LINE
	GAS
	OVERHEAD ELECTRICAL
	UNDERGROUND ELECTRICAL
	WETLAND
	STREAM
	TRACK CENTERLINE
	EXISTING GROUND (PROFILE)
	CONTOUR LINE

PROPOSED FEATURES

	PROPOSED WSDOT ROW
	CITY LIMITS
	CONSTRUCTION FOOTPRINT
	GUIDEWAY CENTERLINE
	CURB AND SIDEWALK
	BOTTOM OF STRUCTURE (PROFILE)
	TOP OF RAIL (PROFILE)
	STATION PLATFORM
	AT-GRADE /TRENCH (BALLASTED) TRACK
	ELEVATED GUIDEWAY
	COLUMNS / STRADDLE BENTS
	LONG SPAN COLUMNS
	HEAD WALL
	TPSS BUILDING
	NEW SIGNAL

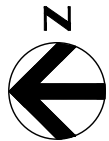
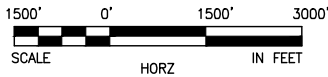


SOUND TRANSIT FEDERAL WAY LINK EXTENSION



SR99 SHEET LAYOUT MATRIX																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A - SR 99 ALTERNATIVE	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
B - S 216TH WEST STATION OPTION (POTENTIAL ADDITIONAL STATION)	X	X	X													
C - S 216TH EAST STATION OPTION (POTENTIAL ADDITIONAL STATION)		X	X													
D - KENT/DES MOINES SR 99 MEDIAN STATION OPTION				X	X	X										
E - KENT/DES MOINES SR 99 EAST STATION OPTION				X	X	X	X									
F - KENT/DES MOINES HC CAMPUS STATION OPTION			X	X	X	X	X									
F - KDM HC CAMPUS OPTION FROM S 216TH WEST STATION OPTION						X	X	X	X	X						
G - S 260TH WEST STATION OPTION (POTENTIAL ADDITIONAL STATION)					X	X	X	X	X							
H - S 260TH EAST STATION OPTION (POTENTIAL ADDITIONAL STATION)							X	X	X	X						
J - S 272ND REDONDO TRENCH STATION OPTION								X	X	X	X	X	X	X		
K - FEDERAL WAY SR 99 STATION OPTION															X	X

I - NOT USED



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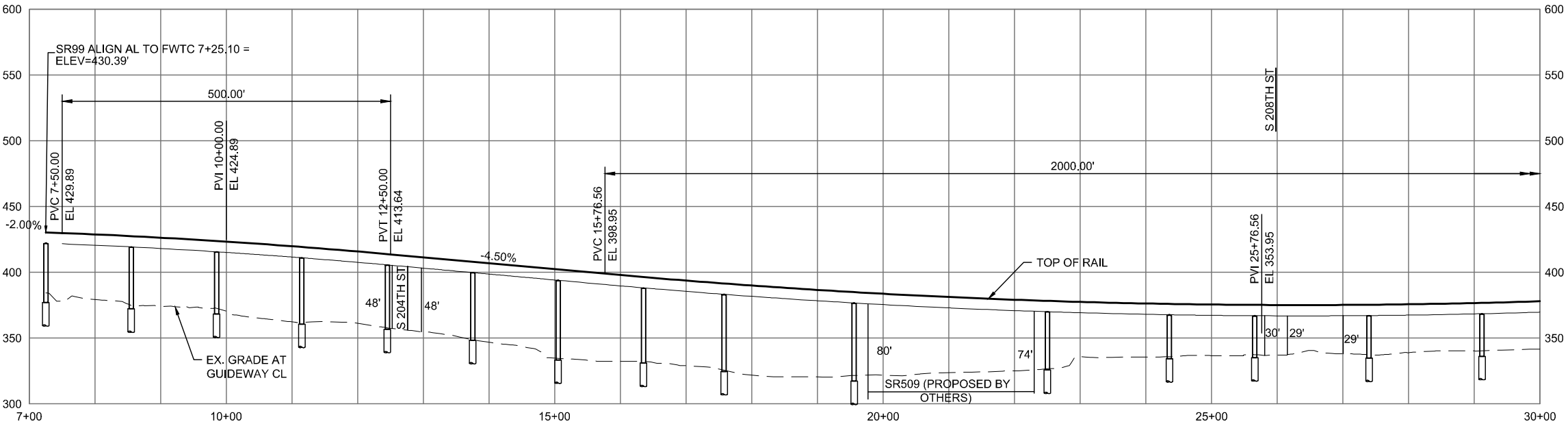
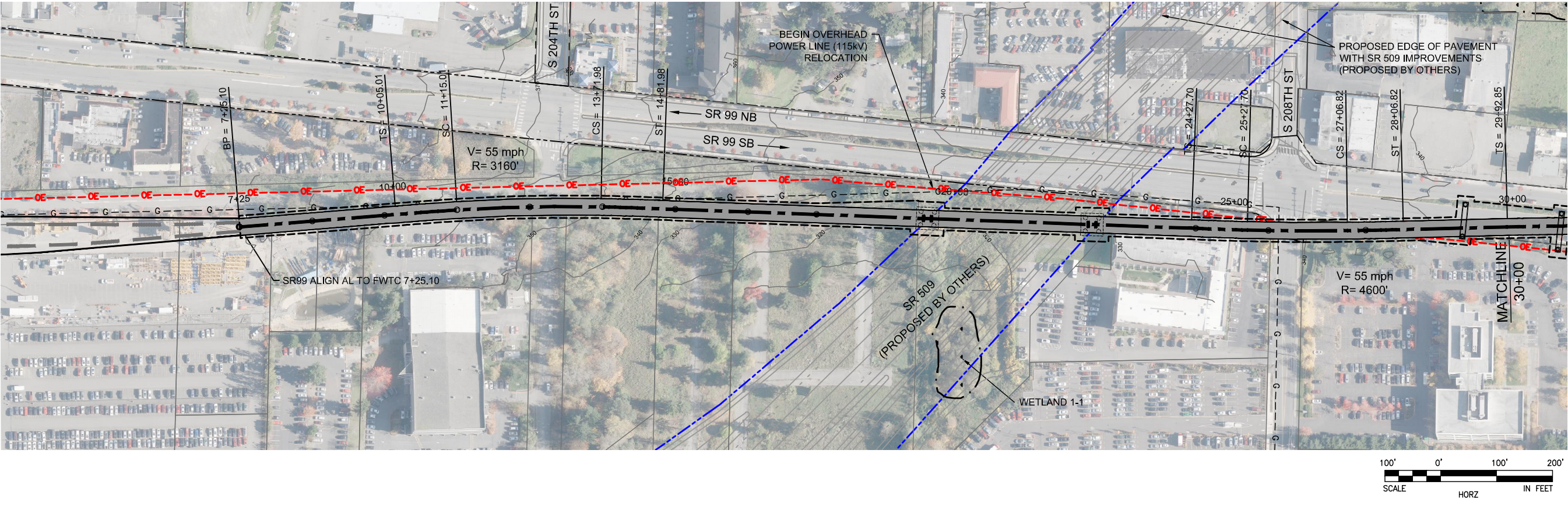


DRAFT EIS - CONCEPTUAL DESIGN
SR99 ALTERNATIVE
SHEET INDEX KEYMAP

APRIL 2015

SR99-A00-GX02
3

SOUND TRANSIT FEDERAL WAY LINK EXTENSION



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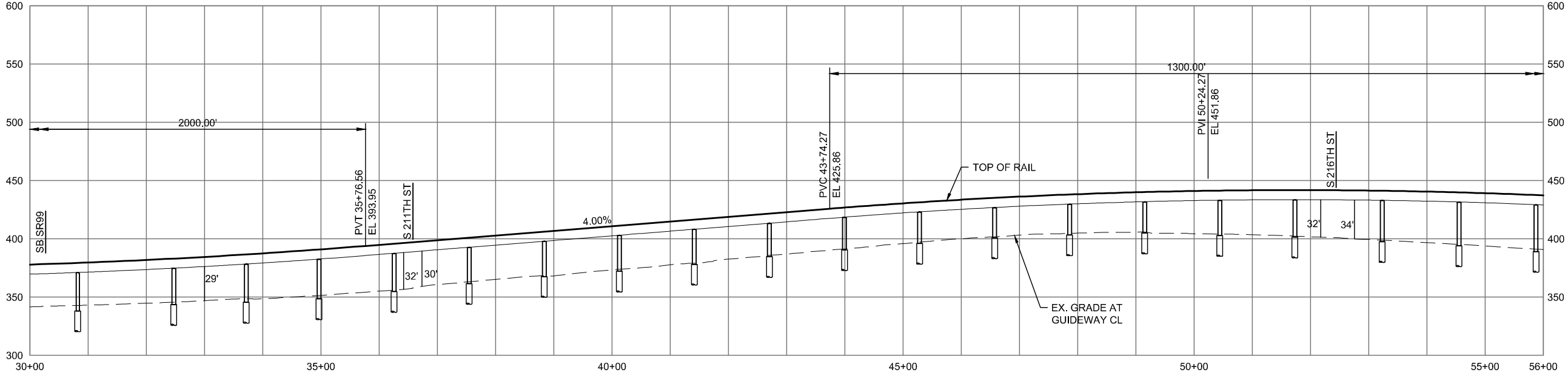
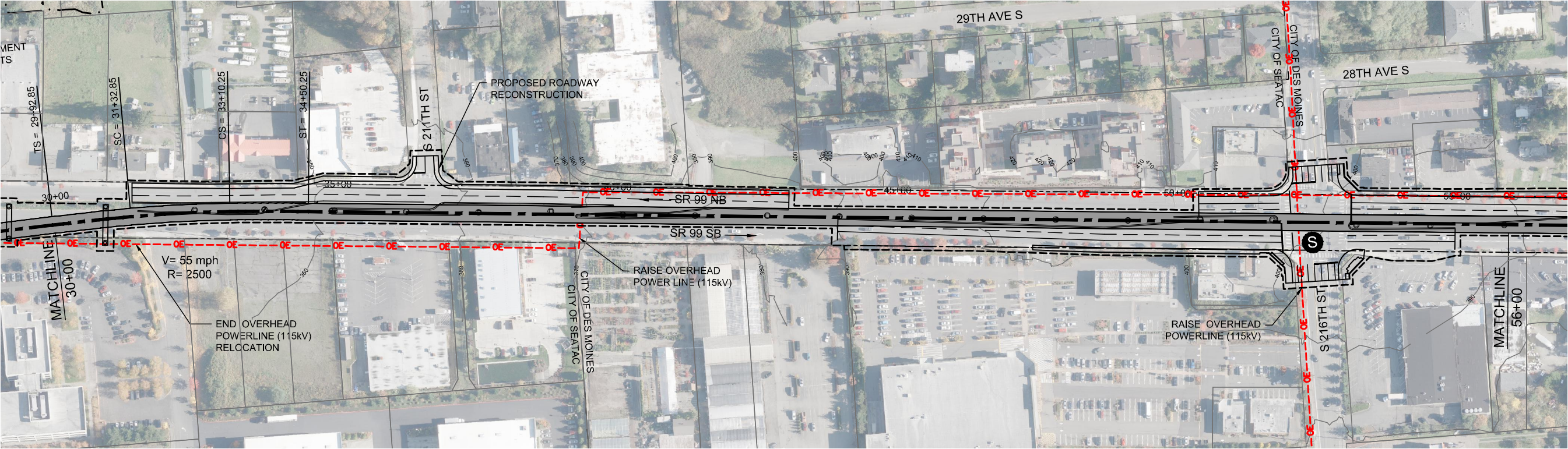


DRAFT EIS - CONCEPTUAL DESIGN
TRACK PLAN & PROFILE AND ROADWAY RECONSTRUCTION
SR 99 ALTERNATIVE
STA 7+25 TO STA 30+00

APRIL 2015

SR99-A1-PP01
4

SOUND TRANSIT FEDERAL WAY LINK EXTENSION



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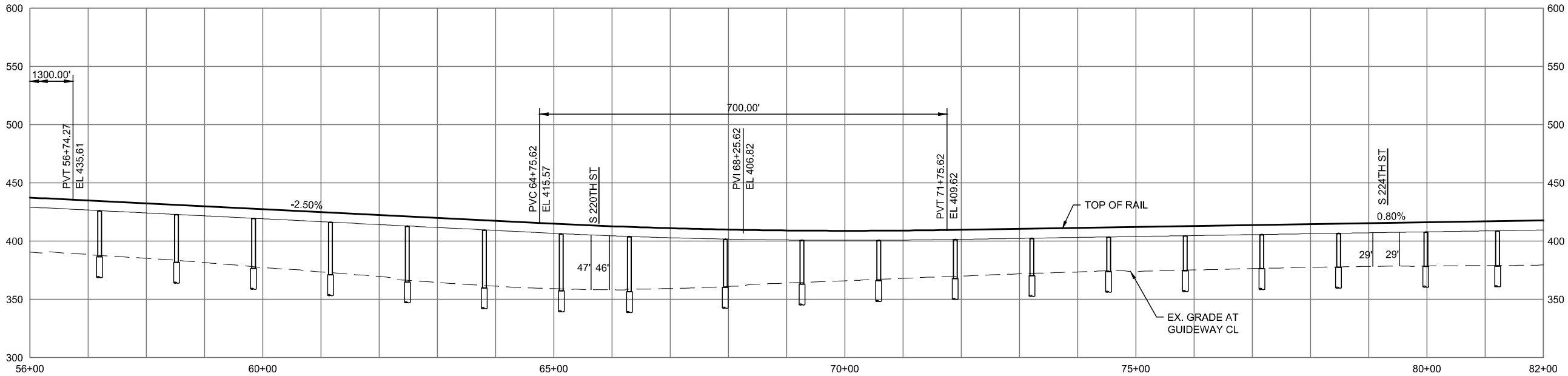
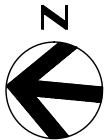
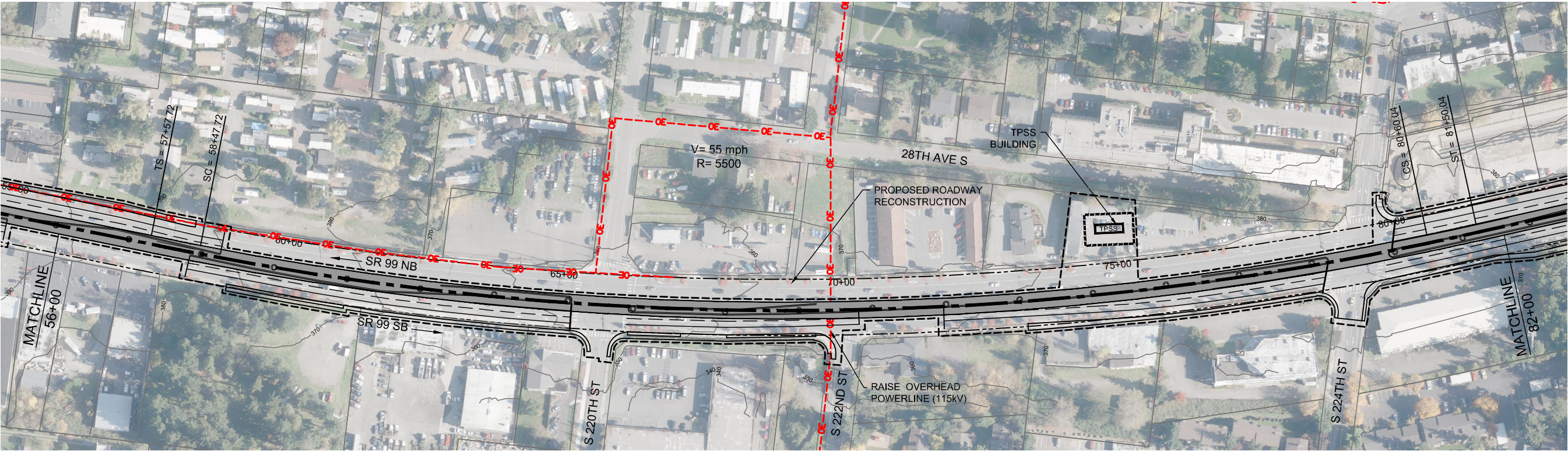


DRAFT EIS - CONCEPTUAL DESIGN
TRACK PLAN & PROFILE AND ROADWAY RECONSTRUCTION
SR 99 ALTERNATIVE
STA 30+00 TO STA 56+00

APRIL 2015

SR99-A2-PP02
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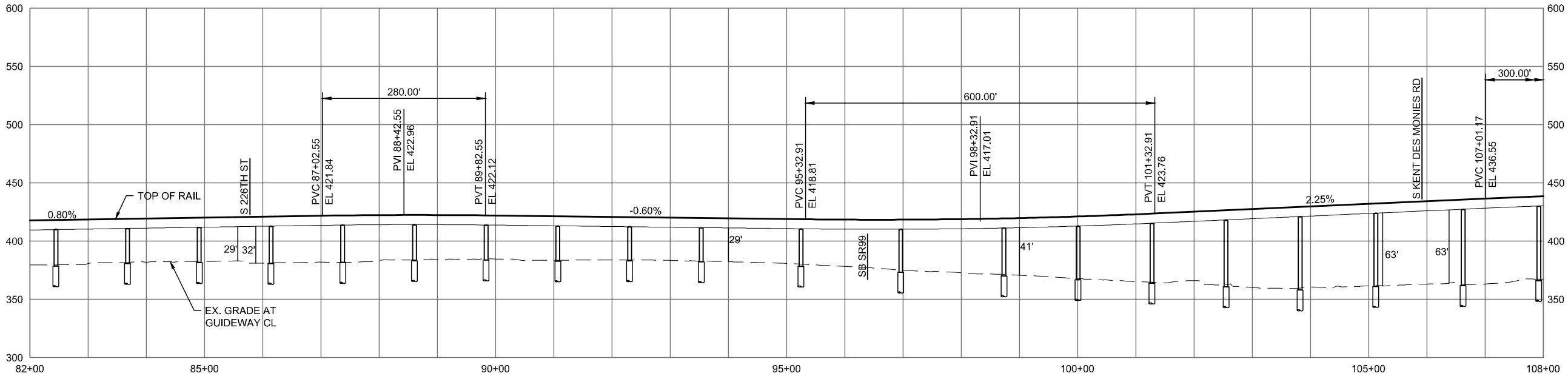
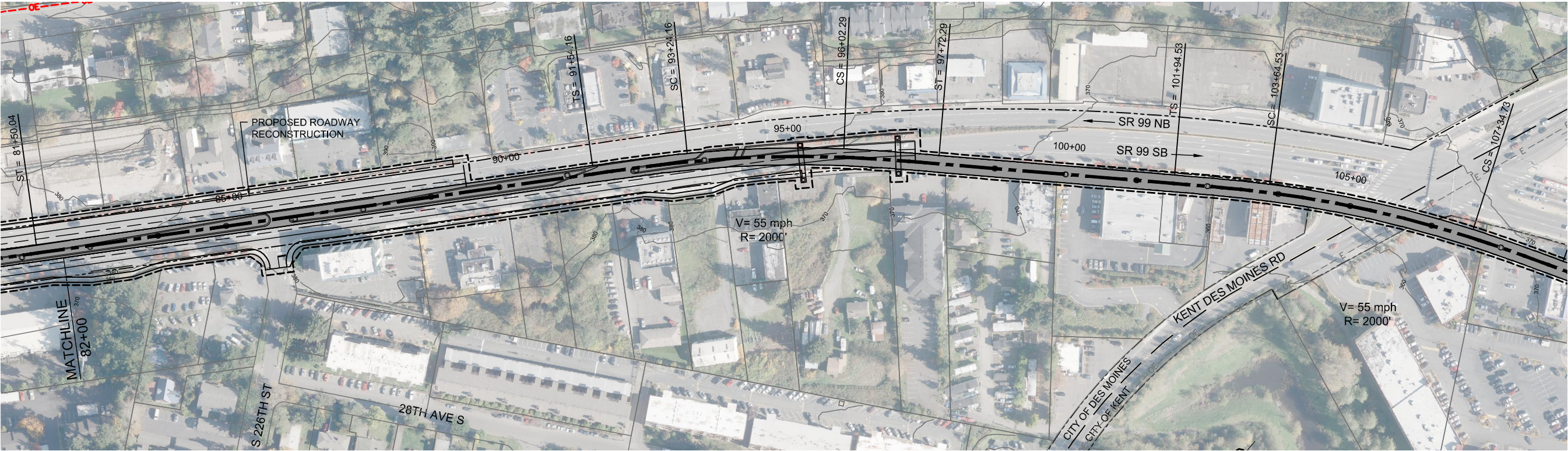


DRAFT EIS - CONCEPTUAL DESIGN
TRACK PLAN & PROFILE AND ROADWAY RECONSTRUCTION
SR 99 ALTERNATIVE
STA 56+00 TO STA 82+00

APRIL 2015

SR99-A3-PP03
6

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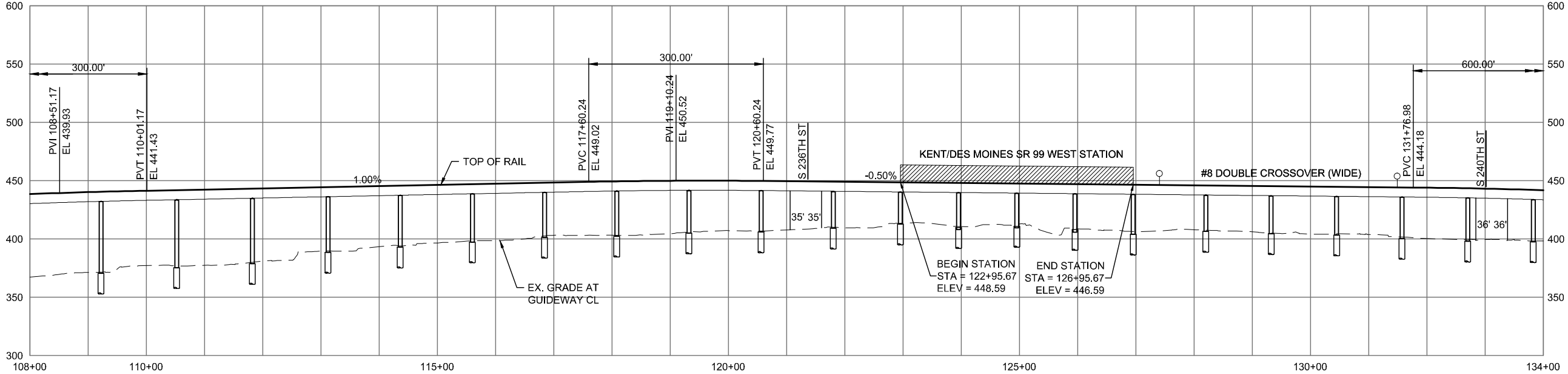
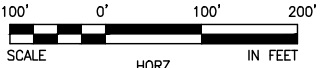
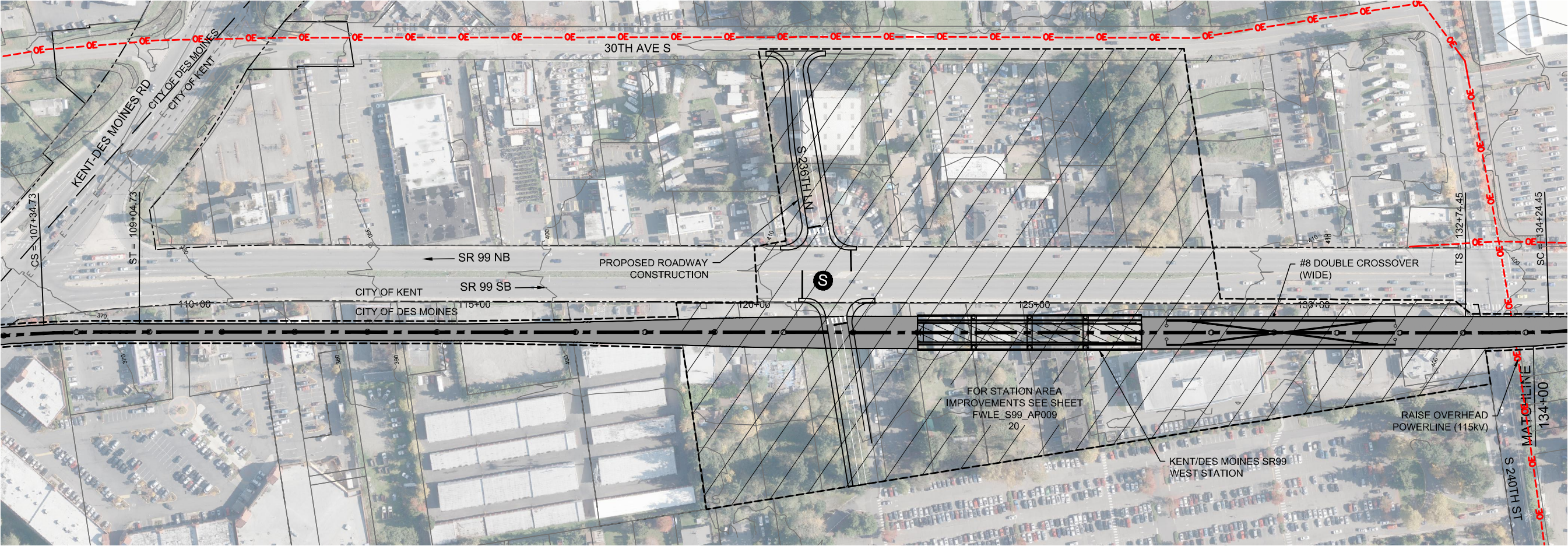


DRAFT EIS - CONCEPTUAL DESIGN
TRACK PLAN & PROFILE AND ROADWAY RECONSTRUCTION
SR 99 ALTERNATIVE
STA 82+00 TO STA 108+00

APRIL 2015

SR99-A4-PP04
7

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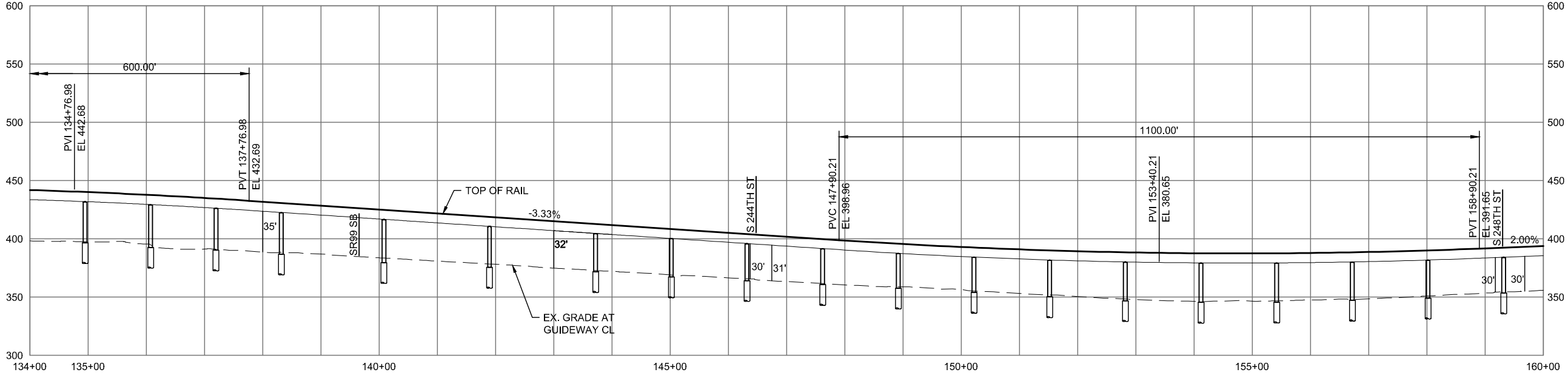
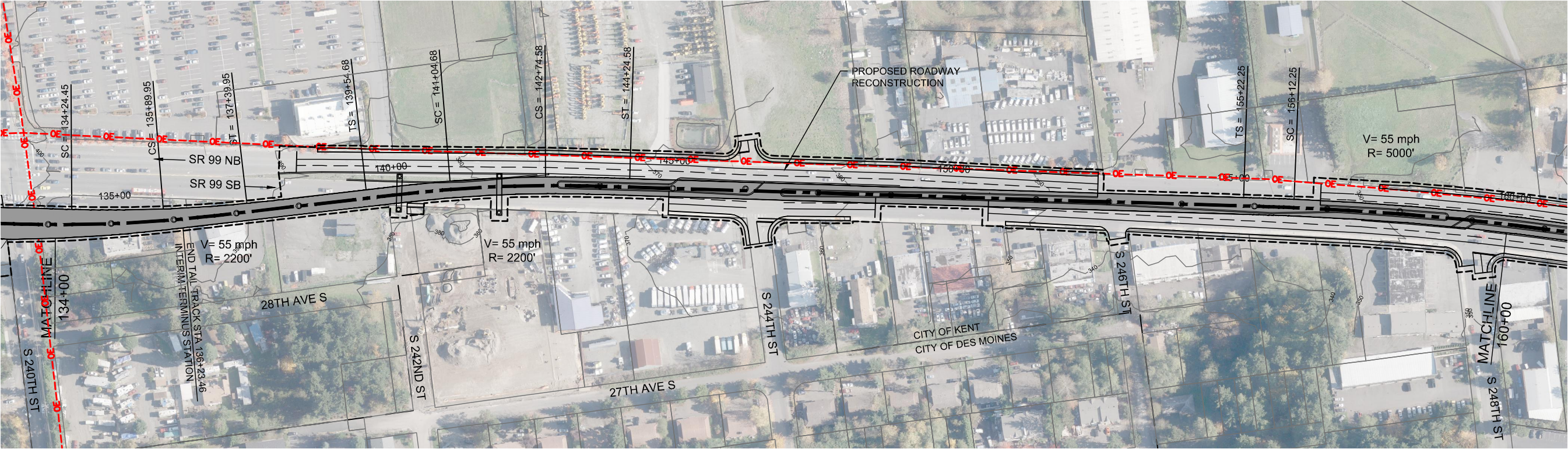


DRAFT EIS - CONCEPTUAL DESIGN
TRACK PLAN & PROFILE AND ROADWAY RECONSTRUCTION
SR 99 ALTERNATIVE
STA 108+00 TO STA 134+00

APRIL 2015

SR99-A5-PP05
8

SOUND TRANSIT FEDERAL WAY LINK EXTENSION



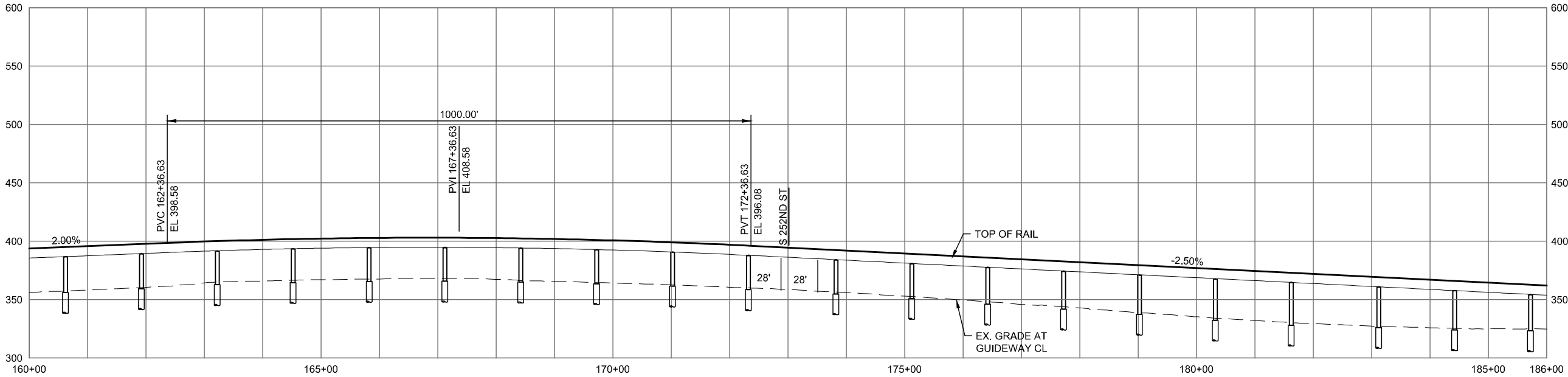
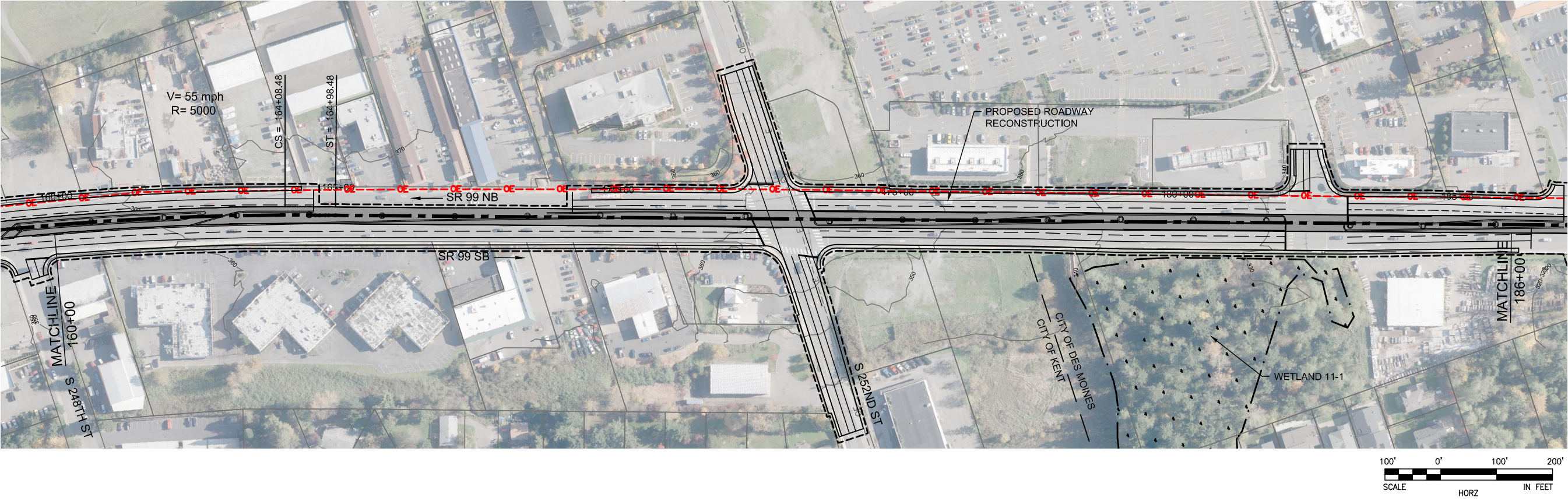
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TRACK PLAN & PROFILE AND ROADWAY RECONSTRUCTION
SR 99 ALTERNATIVE
STA 134+00 TO STA 160+00



APRIL 2015

SR99-A6-PP06
9

SOUND TRANSIT FEDERAL WAY LINK EXTENSION



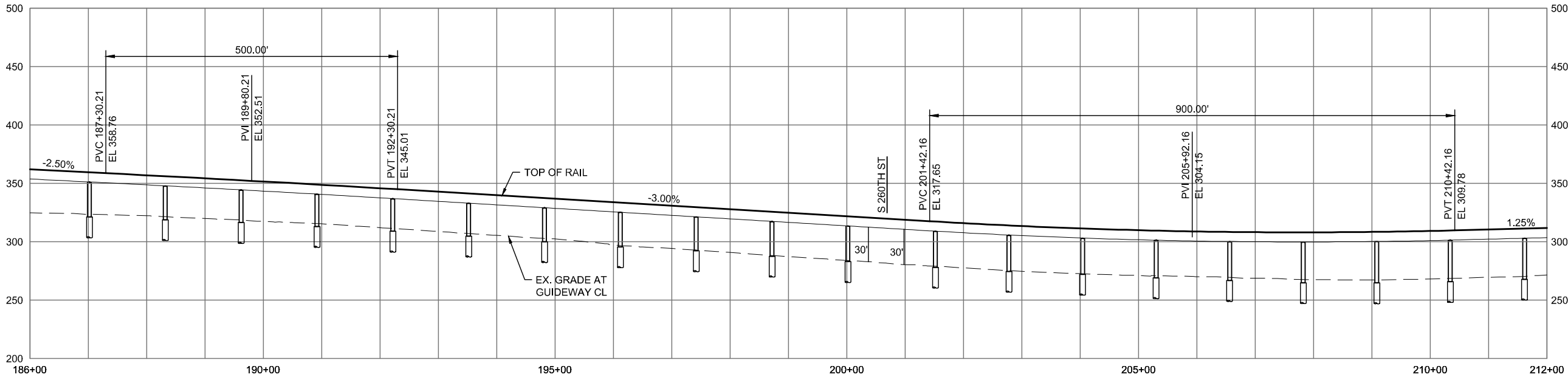
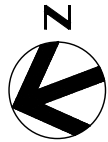
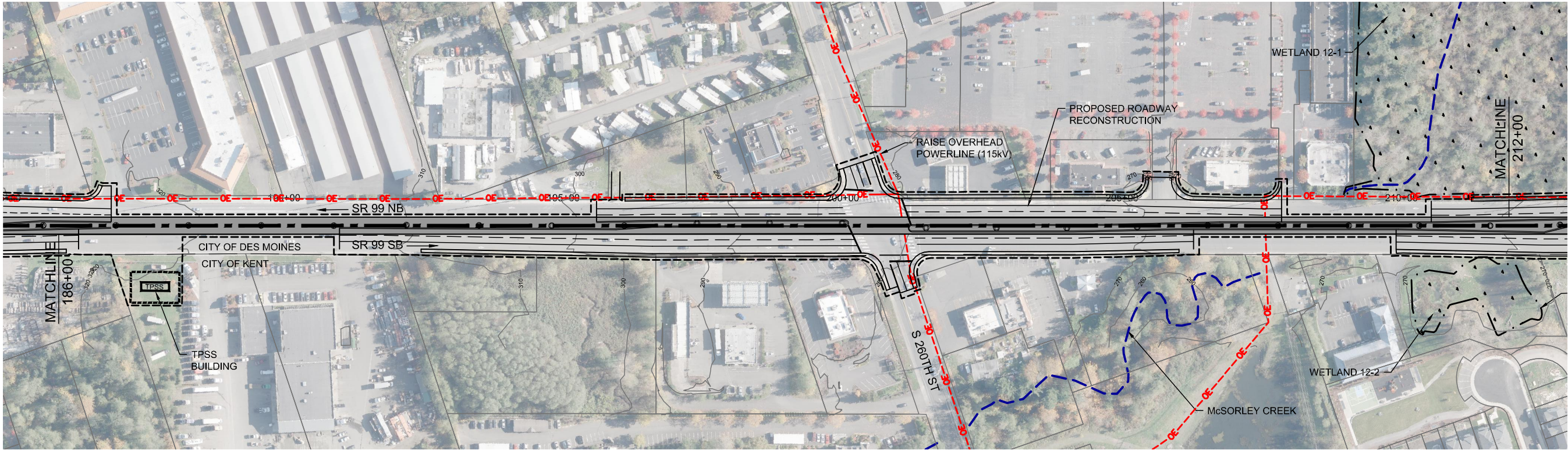
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TRACK PLAN & PROFILE AND ROADWAY RECONSTRUCTION
SR 99 ALTERNATIVE
STA 160+00 TO STA 186+00



APRIL 2015

SR99-A7-PP07
10

SOUND TRANSIT FEDERAL WAY LINK EXTENSION



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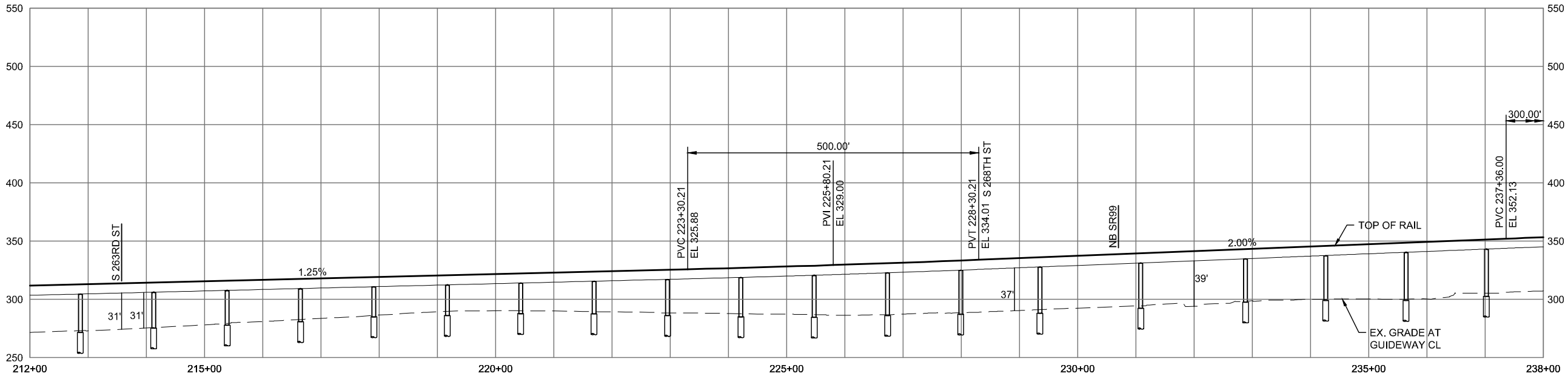
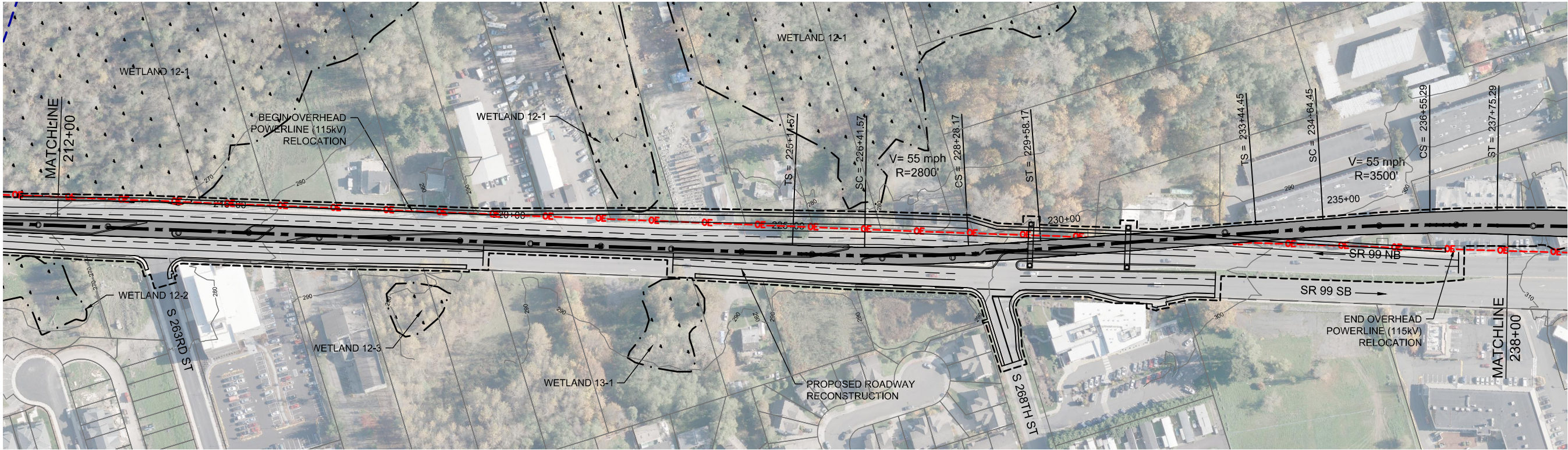


DRAFT EIS - CONCEPTUAL DESIGN
TRACK PLAN & PROFILE AND ROADWAY RECONSTRUCTION
SR 99 ALTERNATIVE
STA 186+00 TO STA 212+00

APRIL 2015

SR99-A8-PP08
11

SOUND TRANSIT FEDERAL WAY LINK EXTENSION



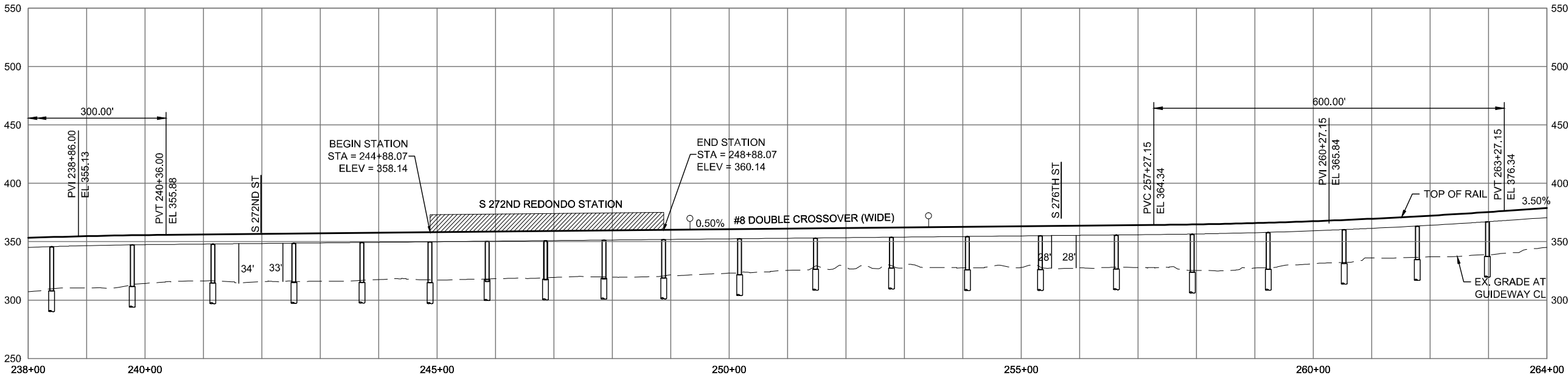
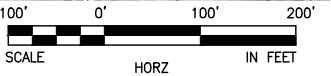
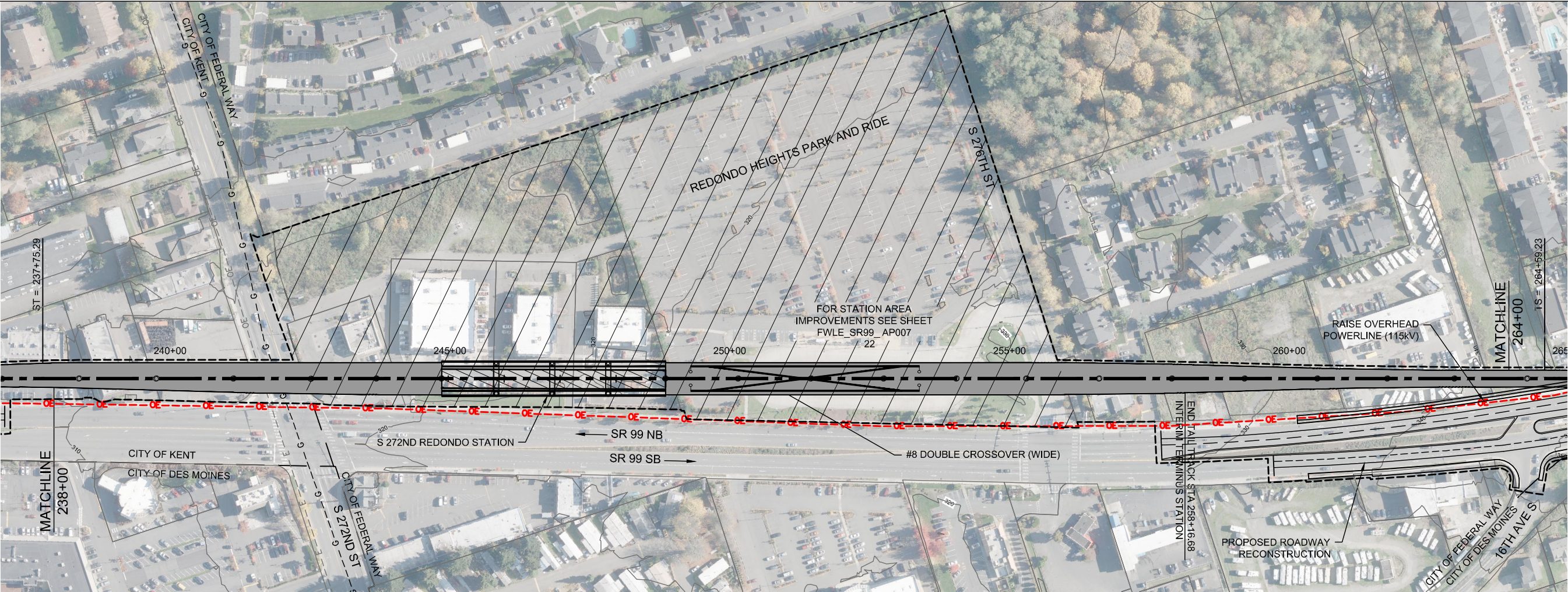
DRAFT EIS - CONCEPTUAL DESIGN
TRACK PLAN & PROFILE AND ROADWAY RECONSTRUCTION
SR 99 ALTERNATIVE
STA 212+00 TO STA 238+00

APRIL 2015

SR99-A9-PP09
12



SOUND TRANSIT FEDERAL WAY LINK EXTENSION



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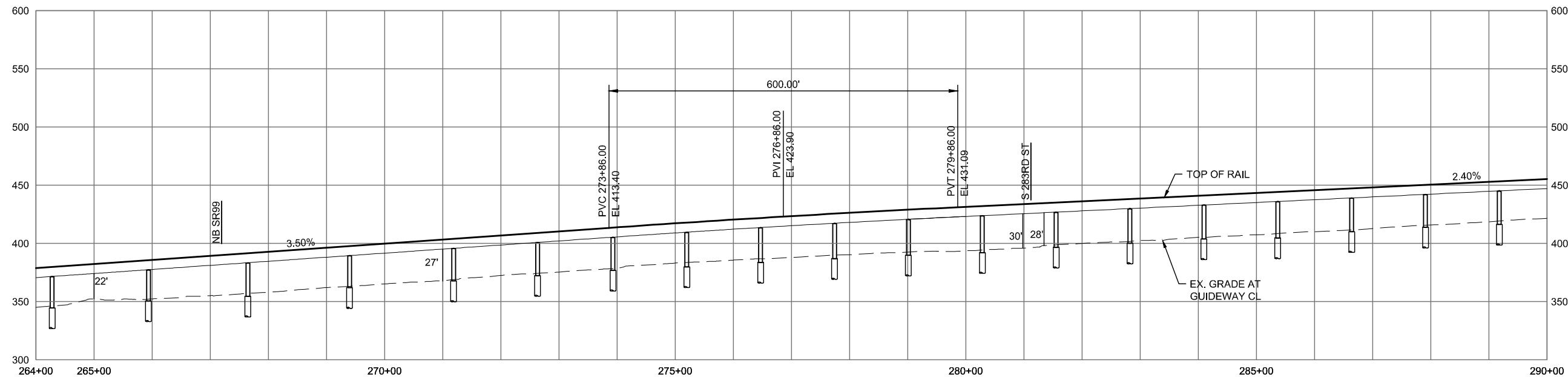
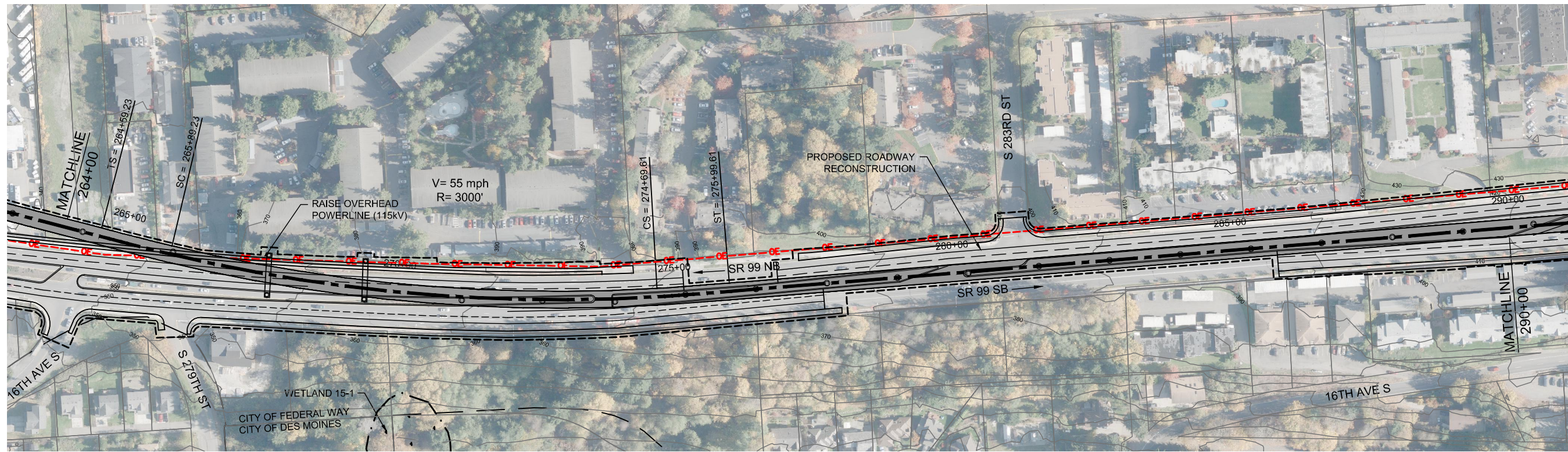


DRAFT EIS - CONCEPTUAL DESIGN
TRACK PLAN & PROFILE AND ROADWAY RECONSTRUCTION
SR 99 ALTERNATIVE
STA 238+00 TO STA 264+00

APRIL 2015

SR99-A10-PP10
13

SOUND TRANSIT FEDERAL WAY LINK EXTENSION



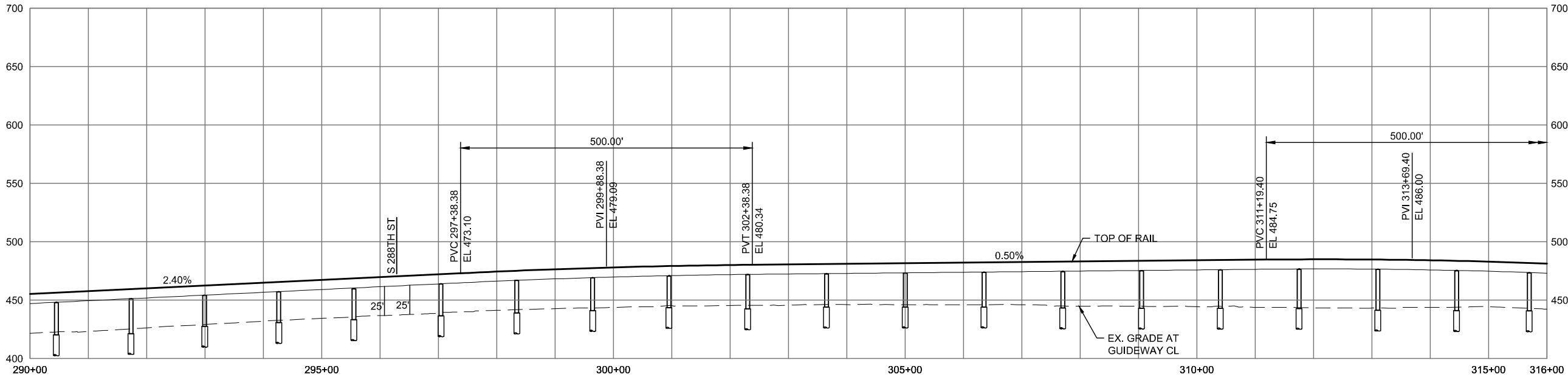
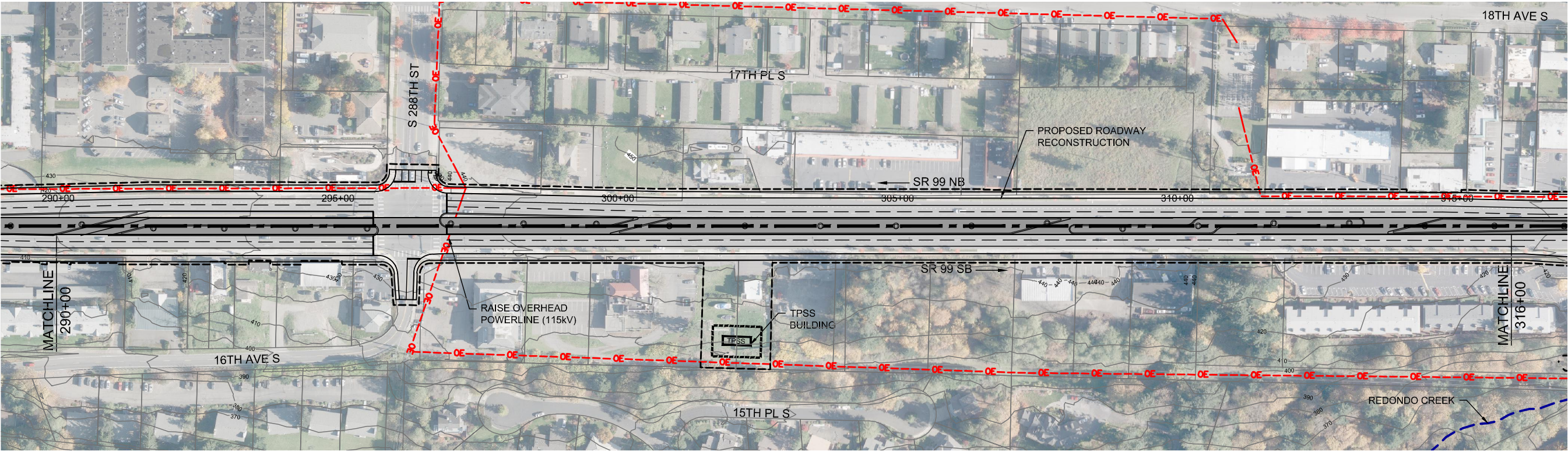
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DRAFT EIS - CONCEPTUAL DESIGN
TRACK PLAN & PROFILE AND ROADWAY RECONSTRUCTION
SR 99 ALTERNATIVE
STA 264+00 TO STA 290+00

APRIL 2015
SR99-A11-PP11
14

SOUND TRANSIT FEDERAL WAY LINK EXTENSION



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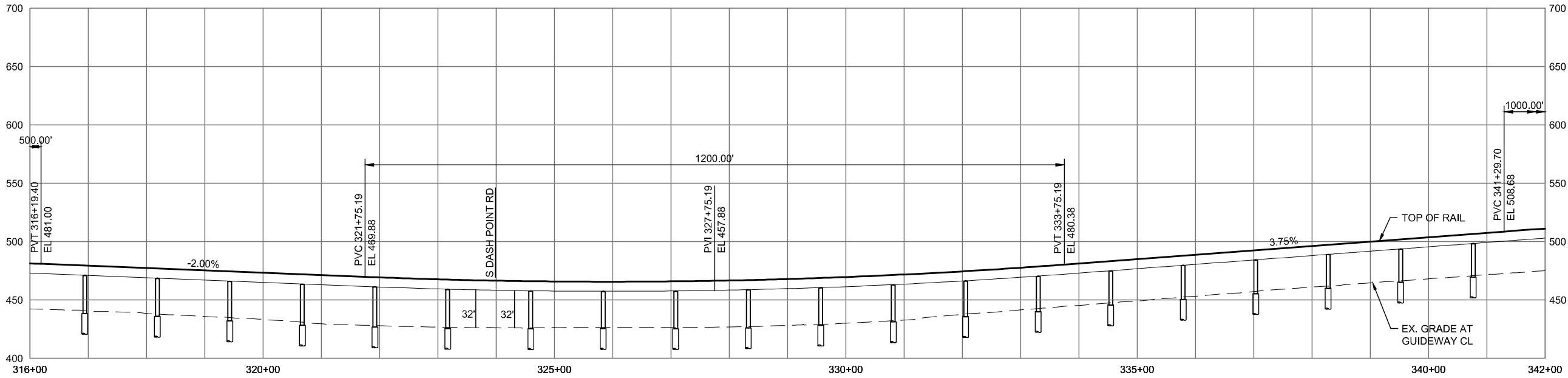
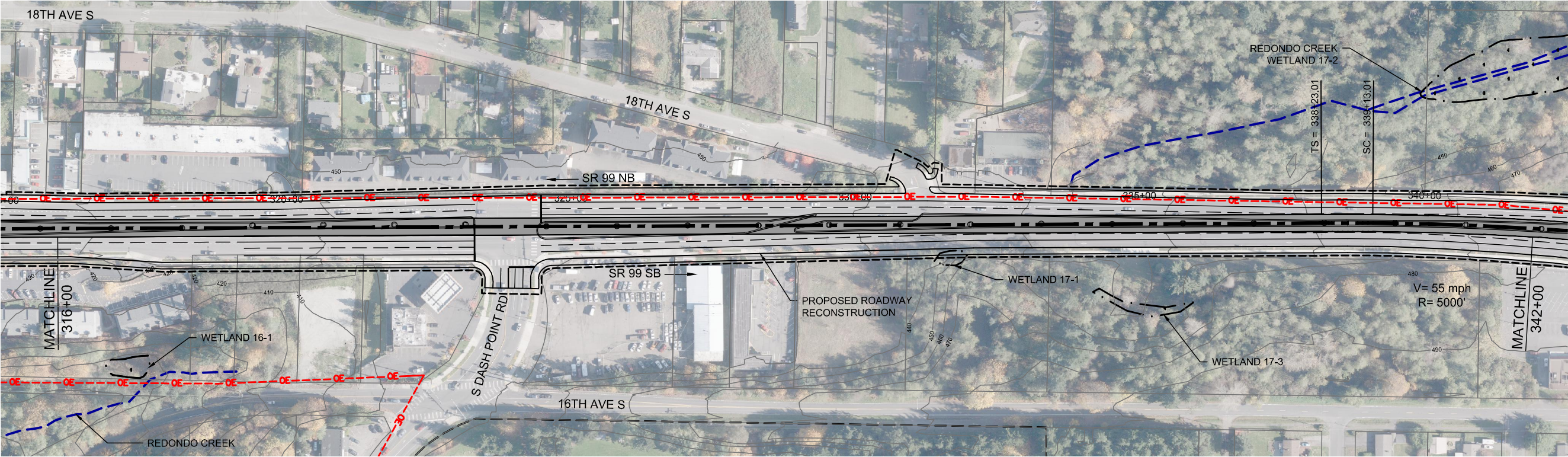


DRAFT EIS - CONCEPTUAL DESIGN
TRACK PLAN & PROFILE AND ROADWAY RECONSTRUCTION
SR 99 ALTERNATIVE
STA 290+00 TO STA 316+00

APRIL 2015

SR99-A12-PP12
15

SOUND TRANSIT FEDERAL WAY LINK EXTENSION



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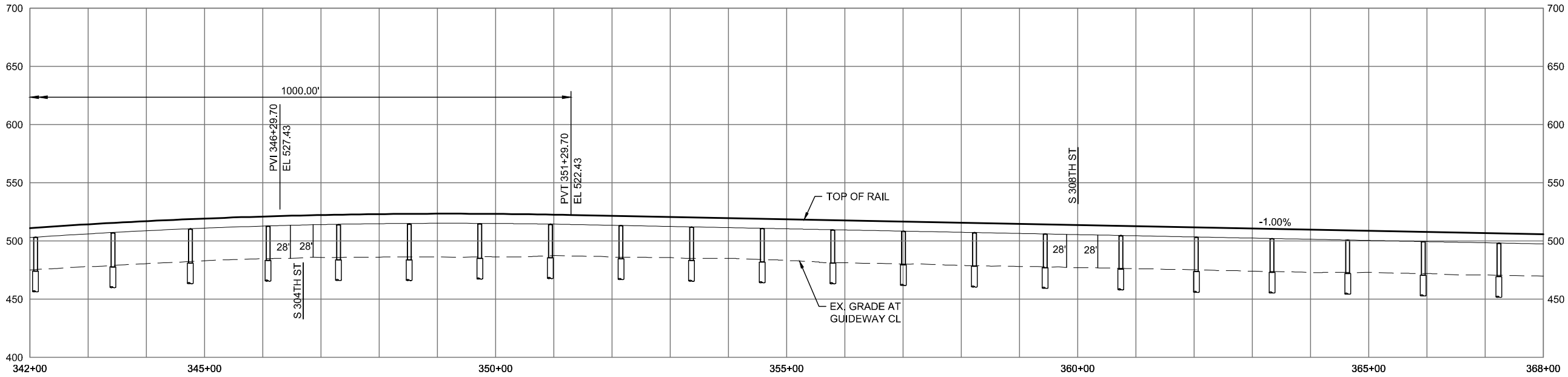
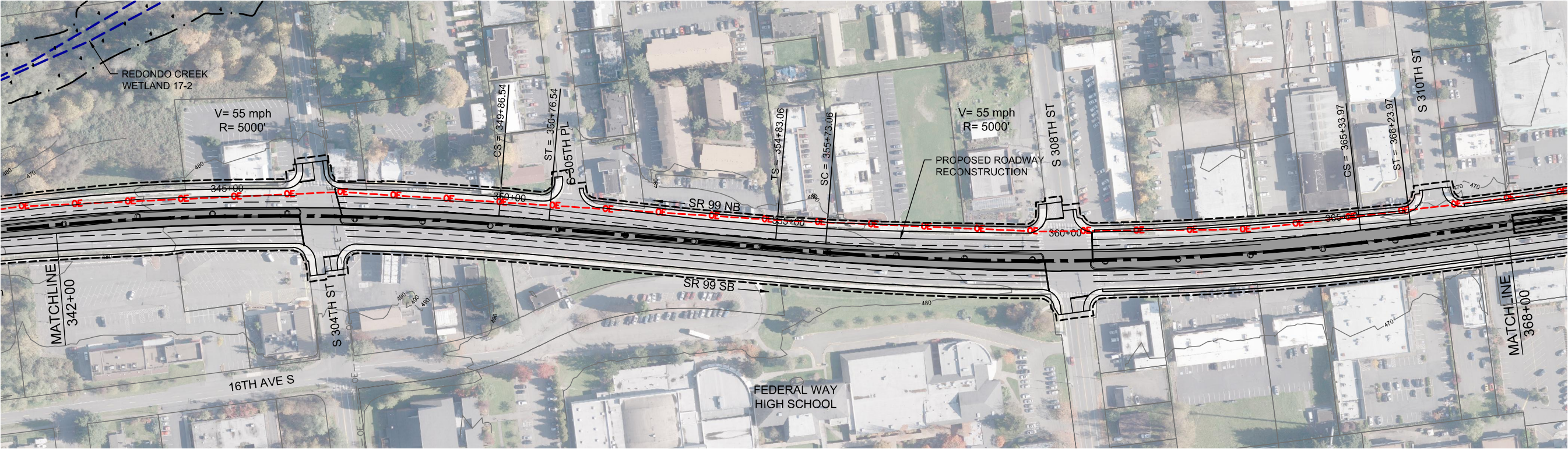


DRAFT EIS - CONCEPTUAL DESIGN
TRACK PLAN & PROFILE AND ROADWAY RECONSTRUCTION
SR 99 ALTERNATIVE
STA 316+00 TO STA 342+00

APRIL 2015

SR99-A13-PP13
16

SOUND TRANSIT FEDERAL WAY LINK EXTENSION



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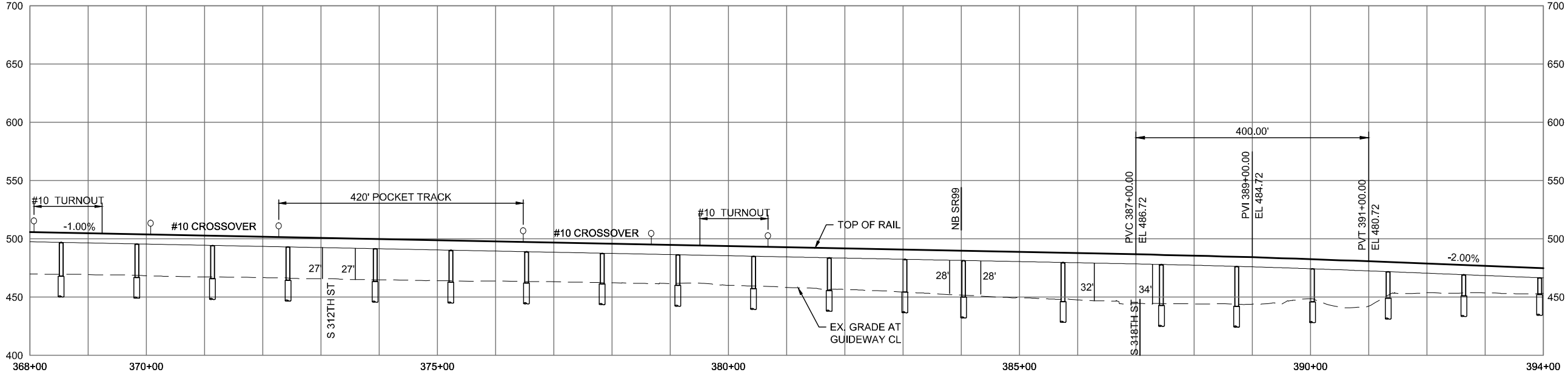
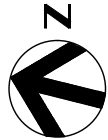
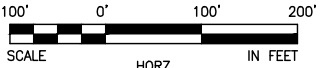
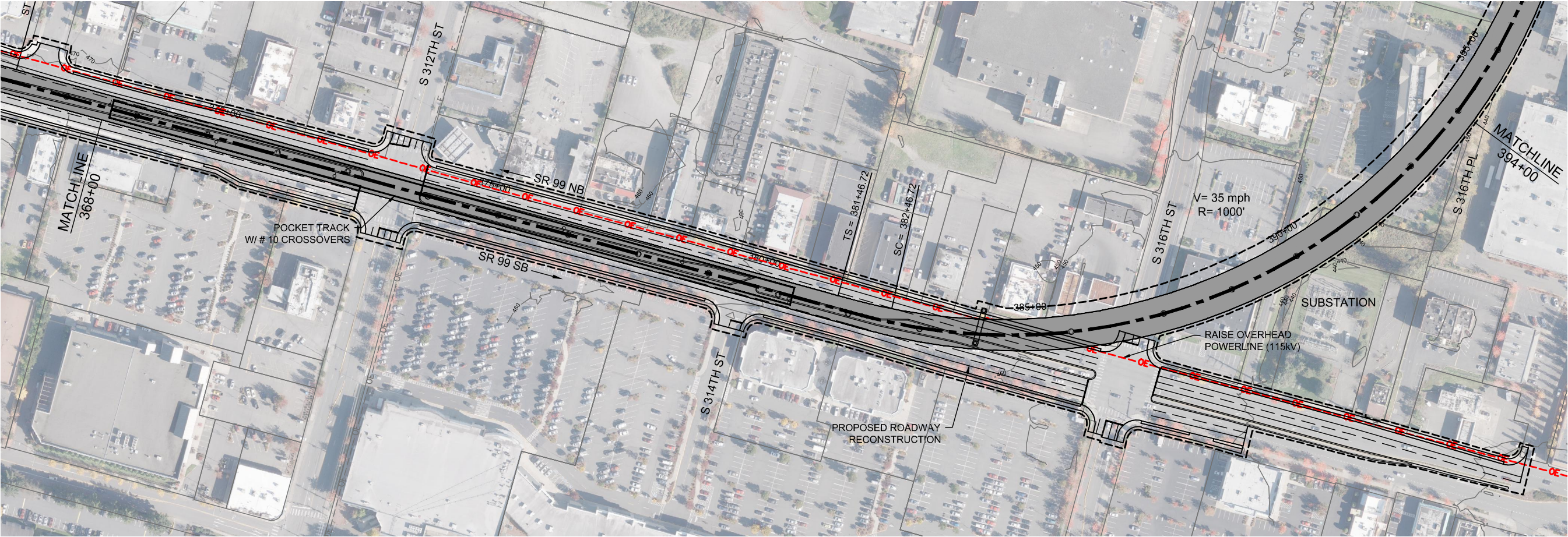


DRAFT EIS - CONCEPTUAL DESIGN
TRACK PLAN & PROFILE AND ROADWAY RECONSTRUCTION
SR 99 ALTERNATIVE
STA 342+00 TO STA 368+00

APRIL 2015

SR99-A14-PP14
17

SOUND TRANSIT FEDERAL WAY LINK EXTENSION



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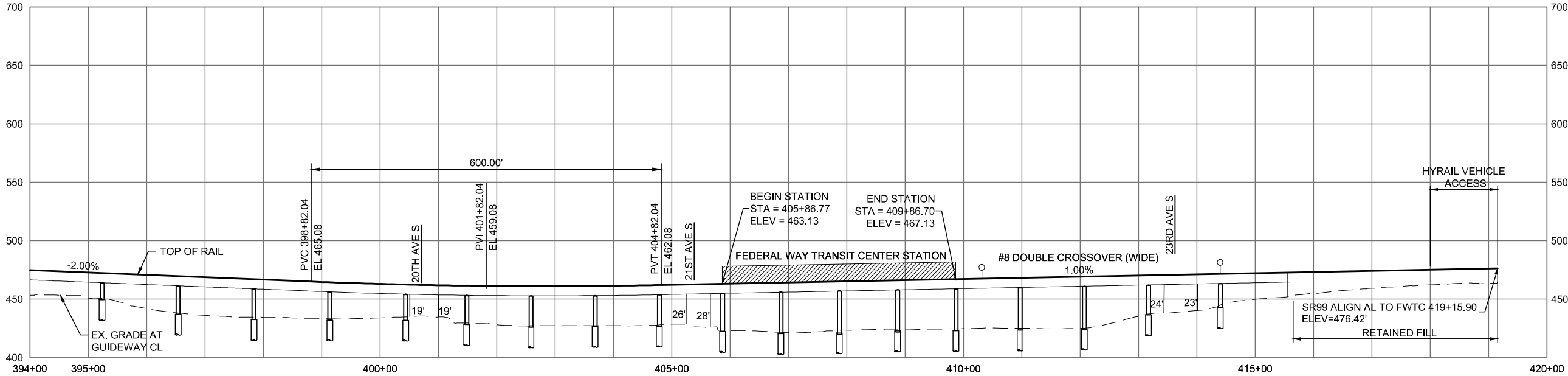
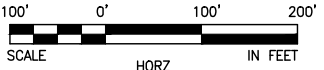
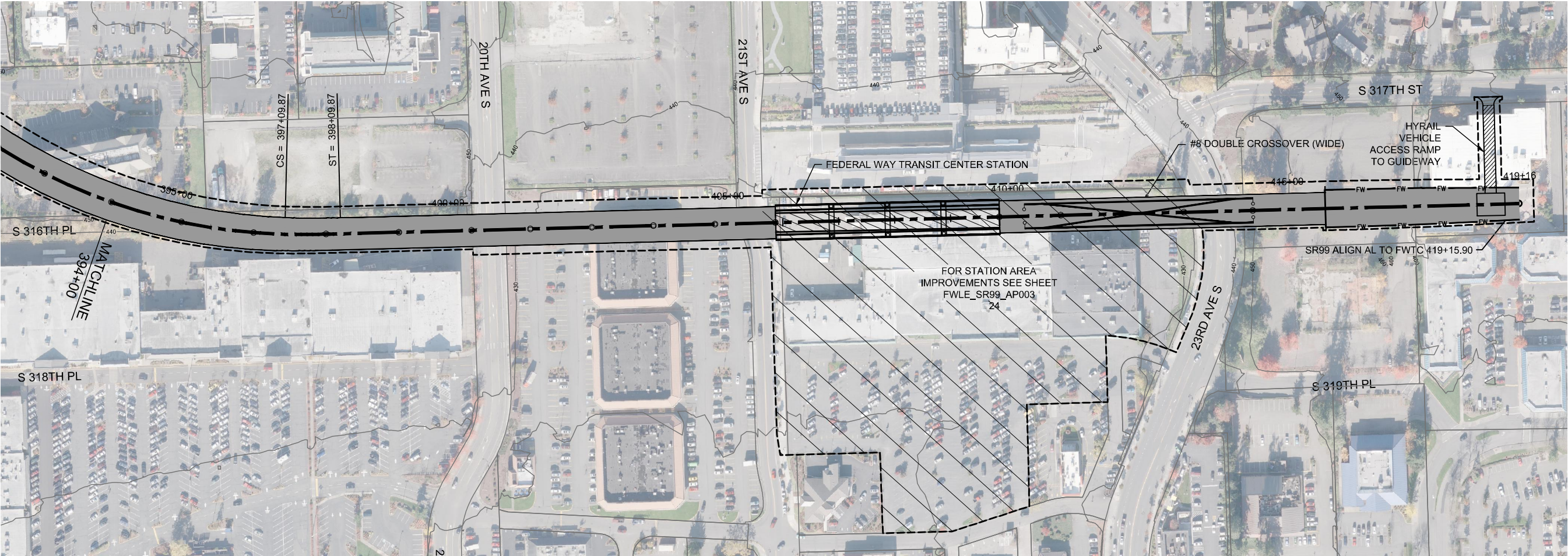


DRAFT EIS - CONCEPTUAL DESIGN
TRACK PLAN & PROFILE AND ROADWAY RECONSTRUCTION
SR 99 ALTERNATIVE
STA 368+00 TO STA 394+00

APRIL 2015

SR99-A15-PP15
18

SOUND TRANSIT FEDERAL WAY LINK EXTENSION



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DRAFT EIS - CONCEPTUAL DESIGN
TRACK PLAN & PROFILE AND ROADWAY RECONSTRUCTION
SR 99 ALTERNATIVE
STA 394+00 TO STA 419+15.90

APRIL 2015

SR99-A16-PP16
19

SOUND TRANSIT FEDERAL WAY LINK EXTENSION

7/17/2014 11:36:52 AM J:\HAMMERQUIST\G:\BWM\PROJECTS\67612\FEDERAL WAY TRANSIT EXTENSION\2 CLIENT\2 DATA\INCOMING HDR\40717 UPDATED TITLEBLOCK.DWG



- STATION PLAZA

VERTICAL CIRCULATION

TICKETING / ENTRY HALL

PLATFORM

ANCILLARY SPACES

TPSS
- BUS LAYOVER

BUS PICK-UP / DROP OFF

PARATRANSIT

BICYCLE STORAGE

CONSTRUCTION STAGING / PARKING
- S

SIGNALIZED INTERSECTION (EXISTING)

S

SIGNALIZED INTERSECTION (PROPOSED)

ASSUMPTIONS:

Kent/Des Moines SR 99 West Station	
Alternative(s):	SR 99
Boardings	3,000
Boardings (with 216th Station)	2,500
Boardings (interim terminus)	4,500
Station Configuration	
Terminus / In-Line	Interim Terminus
Station Type	Center Platform - Elevated
Platform Width	34'
Tail track	900'
Crossover	Yes
TPSS	Yes
Program	
KC Metro Ancillary Spaces (SF)	200
ST Ancillary Spaces (SF)	1,800
Total Ancillary Spaces (SF)	2,000
Vertical Circulation	
# of entrances	2
# of escalators	2
# of staircases (patron)	2
# of elevators	2
# of emergency stairs	2
Bus/Paratransit Facilities	
Bus pick-up/drop-off (KCM)	2 bays, one 60' coach each
Bus pick-up/drop-off (ST)	1 bay, two 60' coaches
Rapid Ride	On-street at SR 99
Bus layover (KCM)	2 bays, two 60' coaches each
Bus layover (ST)	1 bay, two 60' coaches
Paratransit	1 permanent, 1 interim
Communications Facility	Tier 2
Parking & Amenities	
Bike storage	900 SF
Patron drop-off	6 spaces
Short-term parking	7 to 10 spaces
Staff parking	4 spaces
Service/emerg. vehicle park.	2 spaces, separate lot
Signal bungalow / TPSS park.	2 spaces, dedicated
Long-term patron parking	500 spaces (structure)
Temporary patron parking*	500 spaces (surface)
Total proposed patron parking*	1000 Spaces

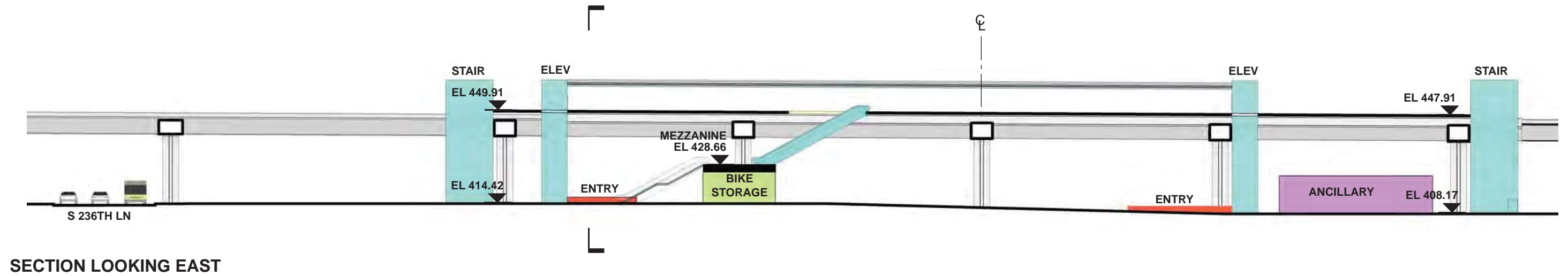
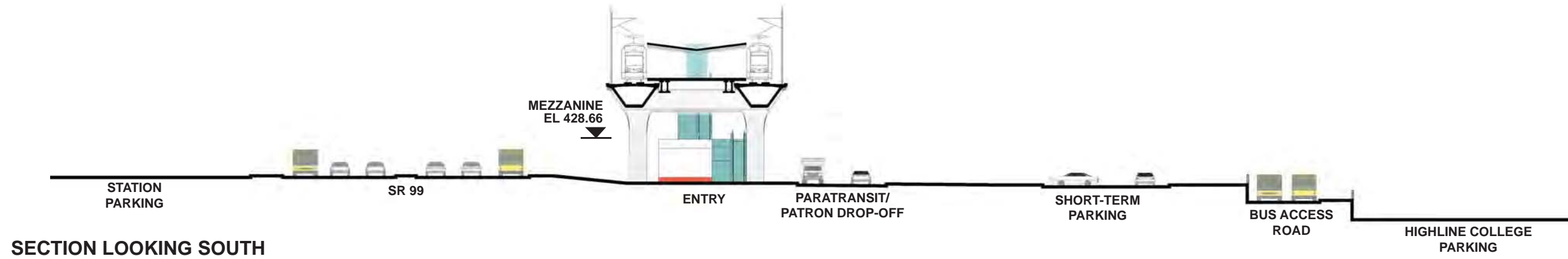
*Only required for interim terminus condition



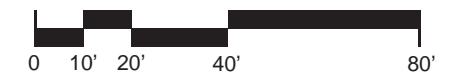
DRAFT EIS - CONCEPTUAL DESIGN
KENT/DES MOINES SR 99 WEST STATION
SITE PLAN

APRIL 2015
FWLE_S99_AP009
20

SOUND TRANSIT FEDERAL WAY LINK EXTENSION



- | | | | |
|--|------------------------|--|--------------------------------|
| | STATION PLAZA | | BUS LAYOVER |
| | VERTICAL CIRCULATION | | BUS PICK-UP / DROP OFF |
| | TICKETING / ENTRY HALL | | PARATRANSIT |
| | PLATFORM | | BICYCLE STORAGE |
| | ANCILLARY SPACES | | CONSTRUCTION STAGING / PARKING |
| | TPSS | | |



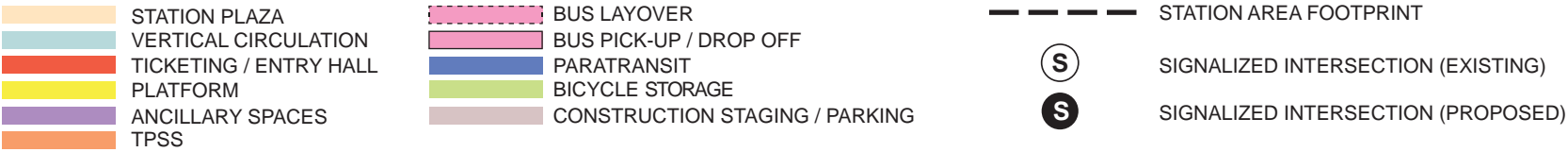
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SOUND TRANSIT FEDERAL WAY LINK EXTENSION



ASSUMPTIONS:

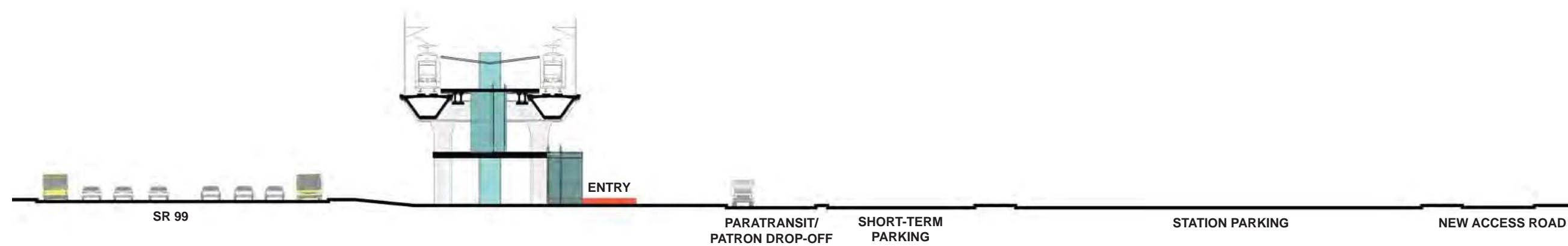
S 272nd Redondo Station	
Alternative(s)	SR 99
Boardings	1,500
Boardings (interim terminus)	3,500
Station Configuration	
Terminus / In-Line	Interim Terminus
Station Type	Center Platform - Elevated
Platform Width	34'
Tail track	900'
Crossover	Yes
TPSS	Yes
Program	
KC Metro Ancillary Spaces (SF)	200
ST Ancillary Spaces (SF)	1,800
Total Ancillary Spaces (SF)	2,000
Vertical Circulation	
# of entrances	2
# of escalators	4
# of staircases (patron)	4
# of elevators	2
# of emergency stairs	2
Bus/ Paratransit Facilities	
Bus bays (KCM)	2 bays, one 60' coach each
Bus bays (ST)	N/A
Rapid Ride	On-street at SR 99
Bus layover (KCM)	2 bays, one 60' coach each
Bus layover (ST)	N/A
Paratransit	1 permanent, 1 interim
Communications Facility	Tier 2
Parking & Amenities	
Bike storage	900 SF
Patron drop-off	6 spaces
Short-term patron parking	7 to 10 spaces
Staff parking	4 spaces
Service/emerg. vehicle park.	2 spaces, separate lot
Signal bungalow / TPSS park.	2 spaces, dedicated
Existing patron parking	700 spaces
Additional patron parking	700 spaces
Total proposed patron parking	1400 spaces (structure)



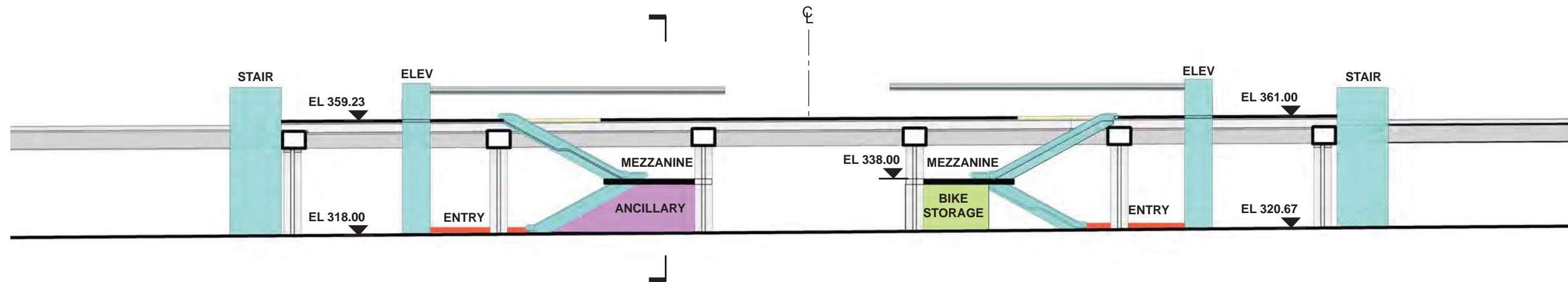
DRAFT EIS - CONCEPTUAL DESIGN
S 272ND REDONDO STATION
SITE PLAN

APRIL 2015
FWLE_S99_AP007
22

SOUND TRANSIT FEDERAL WAY LINK EXTENSION

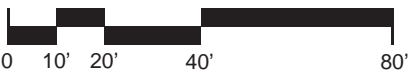


SECTION LOOKING NORTH



SECTION LOOKING EAST

- | | |
|------------------------|--------------------------------|
| STATION PLAZA | BUS LAYOVER |
| VERTICAL CIRCULATION | BUS PICK-UP / DROP OFF |
| TICKETING / ENTRY HALL | PARATRANSIT |
| PLATFORM | BICYCLE STORAGE |
| ANCILLARY SPACES | CONSTRUCTION STAGING / PARKING |
| TPSS | |



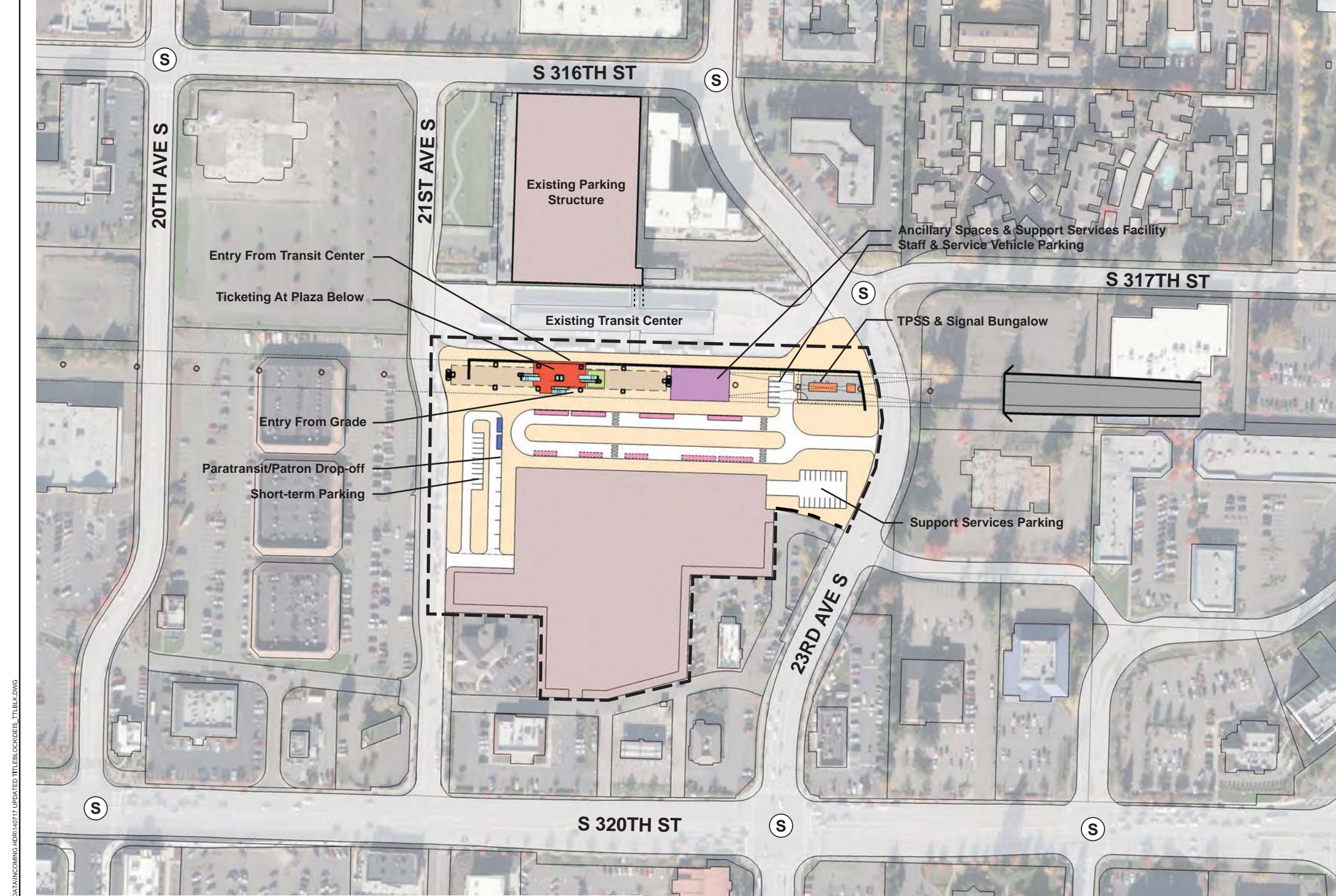
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DRAFT EIS - CONCEPTUAL DESIGN
S 272ND REDONDO STATION
SECTIONS

APRIL 2015
FWLE_S99_AX007
23

SOUND TRANSIT FEDERAL WAY LINK EXTENSION



7/17/2014 11:36:52 AM JHAMMERQUIST G:\BWA PROJECTS\67612 FEDERAL WAY TRANSIT CENTER\EXTENSION\2 CLIENT\2 DATA\INCOMING HDR\40717 UPDATED TITLEBLOCKS\TTLB\KJ.DWG

- STATION PLAZA

VERTICAL CIRCULATION

TICKETING / ENTRY HALL

PLATFORM

ANCILLARY SPACES

TPSS
- BUS LAYOVER

BUS PICK-UP / DROP OFF

PARATRANSIT

BICYCLE STORAGE

CONSTRUCTION STAGING / PARKING
- S

SIGNALIZED INTERSECTION (EXISTING)

S

SIGNALIZED INTERSECTION (PROPOSED)

ASSUMPTIONS:

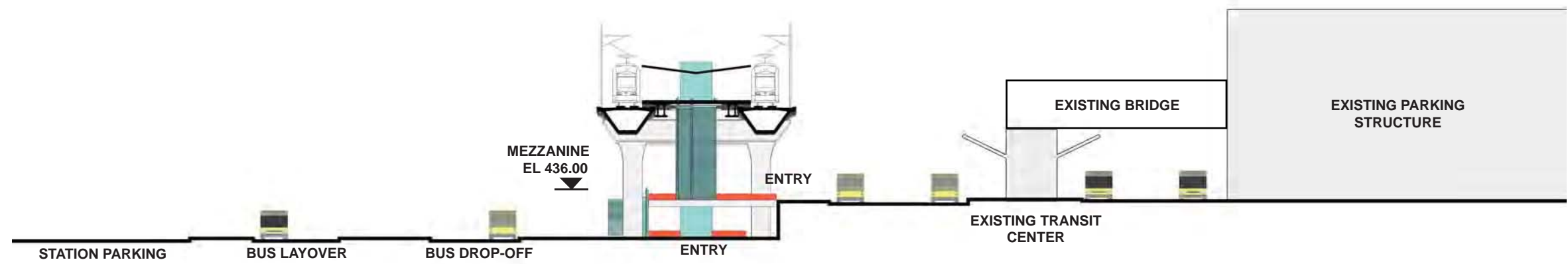
Federal Way Transit Center Station	
Alternative(s)	SR 99; I-5 to SR 99
Boardings	9,000
Station Configuration	
Terminus / In-Line	Terminus
Station Type	Center Platform - Elevated
Platform Width	34'
Tail track	900'
Crossover	Yes
TPSS	Yes
Program	
KC Metro Ancillary Spaces (SF)	200
ST Ancillary Spaces (SF)	1,800
Support Services (SF)	5,000
Total Ancillary Spaces (SF)	7,000
Vertical Circulation	
# of entrances	2
# of escalators	3
# of staircases (patron)	3
# of elevators	2
# of emergency stairs	2
Bus/ Paratransit Facilities	
Bus bays (KCM)	2 bays, one 60' coach each
Bus bays (ST)	1 bay, two 60' coaches
Rapid Ride	Transit Island (Existing)
Bus layover (KCM)	3 bays, one 40' coach each 5 bays, one 60' coach each (relocated from transit ctr.)
Bus layover (ST)	1 bay, two 60' coaches
Paratransit spaces	2 spaces
Communications Facility	Tier 3
Parking & Amenities	
Bike storage	900 SF
Patron drop-off	6 spaces
Short-term patron parking	7 to 10 spaces
Staff parking	4 spaces
Support Services parking	15 spaces
Service/emerg. vehicle park.	2 spaces, separate lot
Signal bungalow / TPSS park.	2 spaces, dedicated
Existing patron parking	1,190 spaces
Additional patron parking	400 spaces
Total proposed patron parking	1590 spaces (structure)



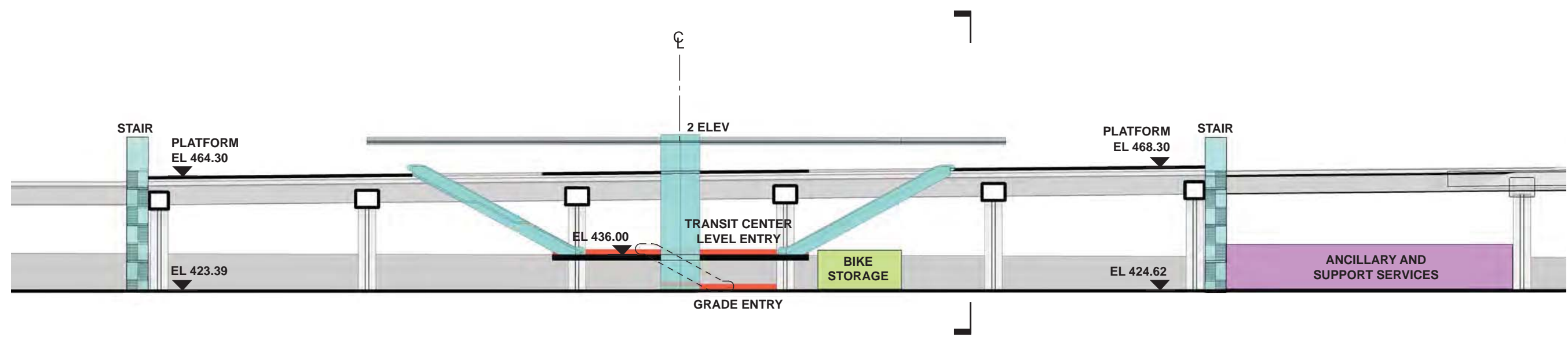
DRAFT EIS - CONCEPTUAL DESIGN
FEDERAL WAY TRANSIT CENTER STATION
SITE PLAN

APRIL 2015
FWLE_S99_AP003
24

SOUND TRANSIT FEDERAL WAY LINK EXTENSION

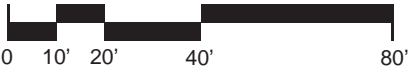


SECTION LOOKING WEST



SECTION LOOKING NORTH

- | | |
|------------------------|--------------------------------|
| STATION PLAZA | BUS LAYOVER |
| VERTICAL CIRCULATION | BUS PICK-UP / DROP OFF |
| TICKETING / ENTRY HALL | PARATRANSIT |
| PLATFORM | BICYCLE STORAGE |
| ANCILLARY SPACES | CONSTRUCTION STAGING / PARKING |
| TPSS | |

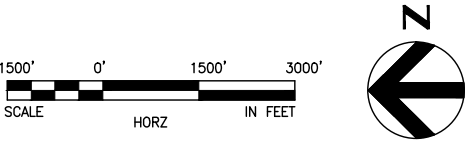


SOUND TRANSIT FEDERAL WAY LINK EXTENSION



SR99 SHEET LAYOUT MATRIX																
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A - SR 99 ALTERNATIVE	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
B - S 216TH WEST STATION OPTION (POTENTIAL ADDITIONAL STATION)	X	X	X													
C - S 216TH EAST STATION OPTION (POTENTIAL ADDITIONAL STATION)		X	X													
D - KENT/DES MOINES SR 99 MEDIAN STATION OPTION				X	X	X										
E - KENT/DES MOINES SR 99 EAST STATION OPTION				X	X	X	X									
F - KENT/DES MOINES HC CAMPUS STATION OPTION			X	X	X	X	X									
F - KDM HC CAMPUS OPTION FROM S 216TH WEST STATION OPTION						X	X	X	X	X						
G - S 260TH WEST STATION OPTION (POTENTIAL ADDITIONAL STATION)					X	X	X	X	X							
H - S 260TH EAST STATION OPTION (POTENTIAL ADDITIONAL STATION)							X	X	X	X						
J - S 272ND REDONDO TRENCH STATION OPTION								X	X	X	X	X	X	X		
K - FEDERAL WAY SR 99 STATION OPTION															X	X

I - NOT USED



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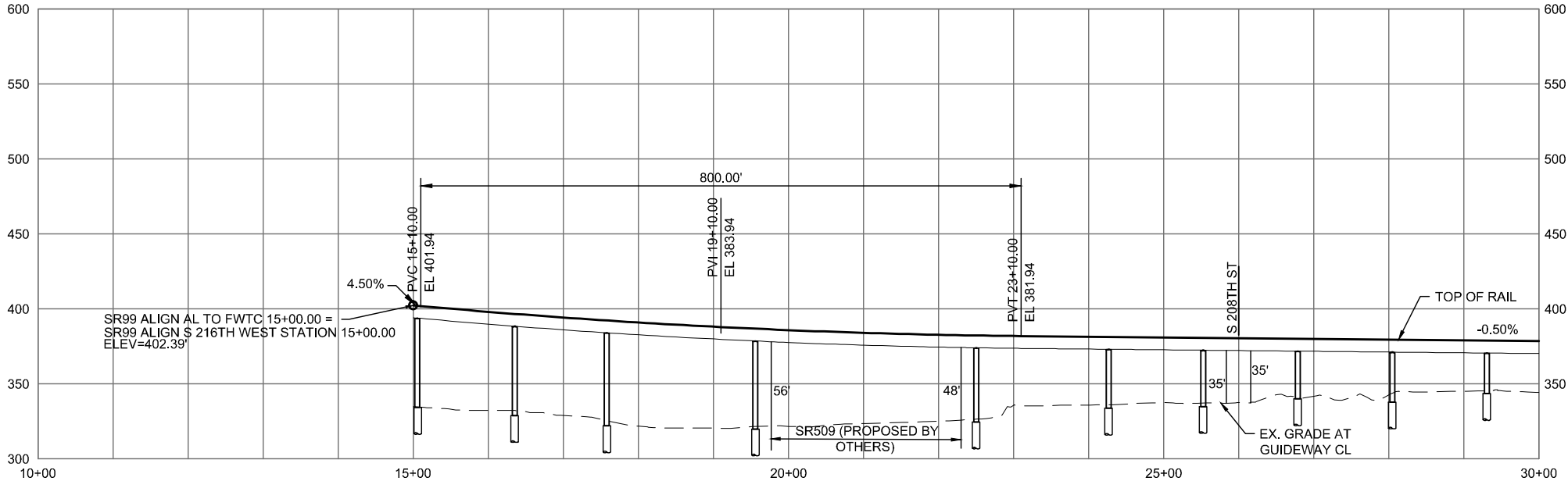
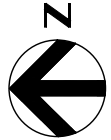
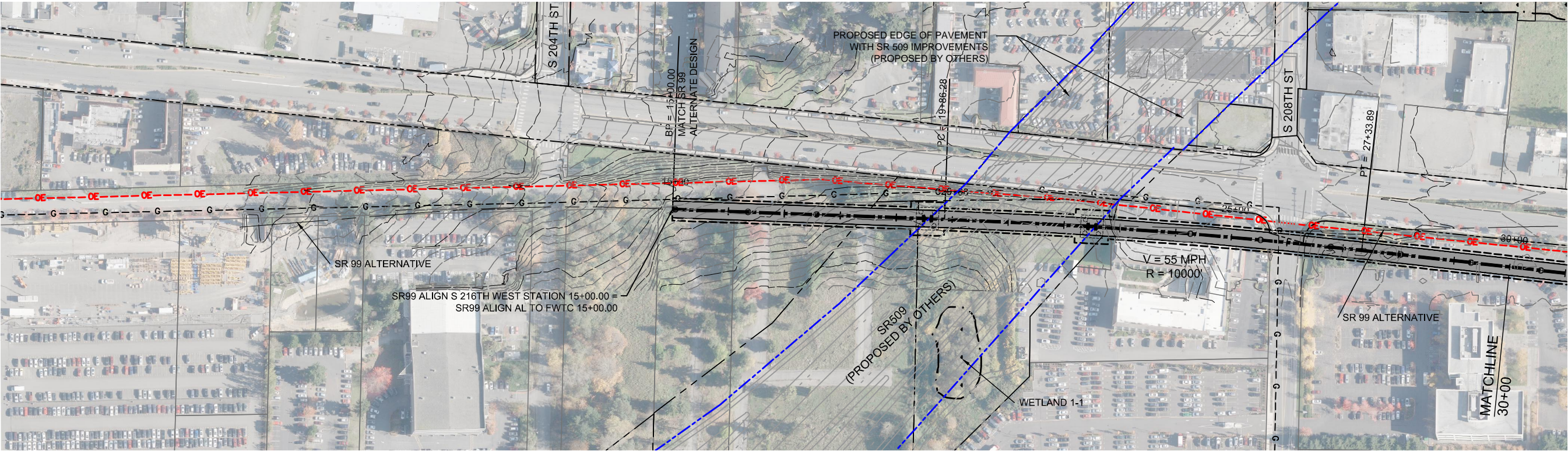


DRAFT EIS - CONCEPTUAL DESIGN
S 216TH WEST STATION OPTION (POTENTIAL ADDITIONAL STATION)
SHEET INDEX KEYMAP

APRIL 2015

SR99-B00-GX02
26

SOUND TRANSIT FEDERAL WAY LINK EXTENSION



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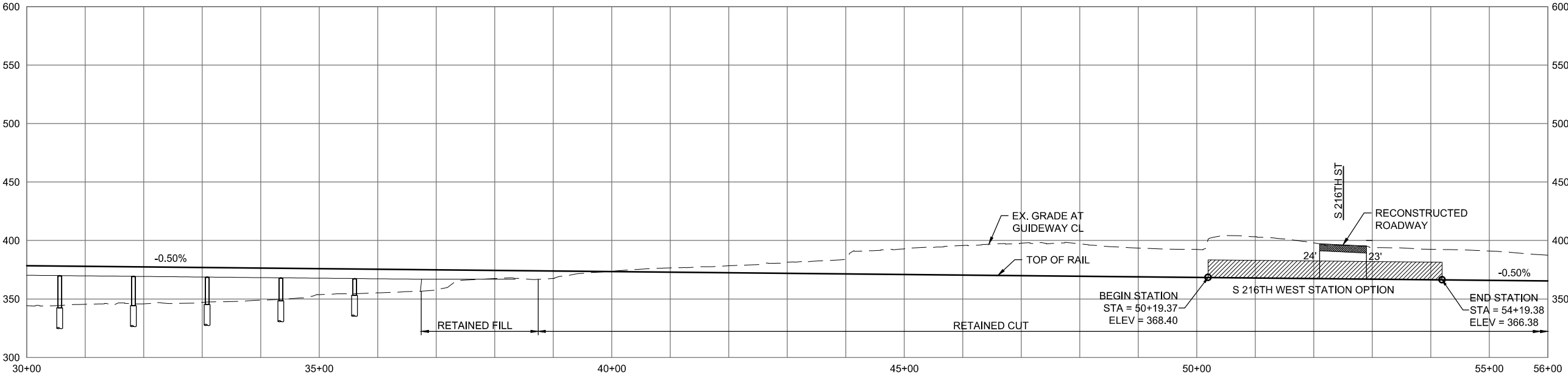
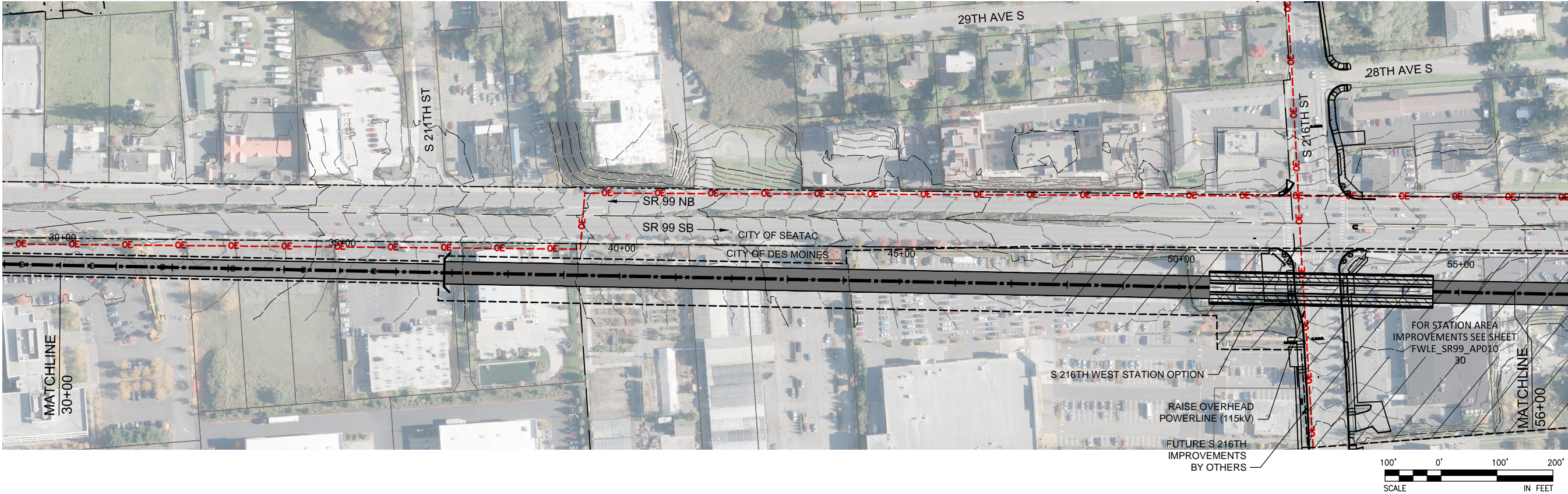


DRAFT EIS - CONCEPTUAL DESIGN
TRACK PLAN & PROFILE AND ROADWAY RECONSTRUCTION
S 216TH WEST STATION OPTION (POTENTIAL ADDITIONAL STATION)
STA 15+00 TO STA 30+00

APRIL 2015

SR99-B1-PP01
27

SOUND TRANSIT FEDERAL WAY LINK EXTENSION



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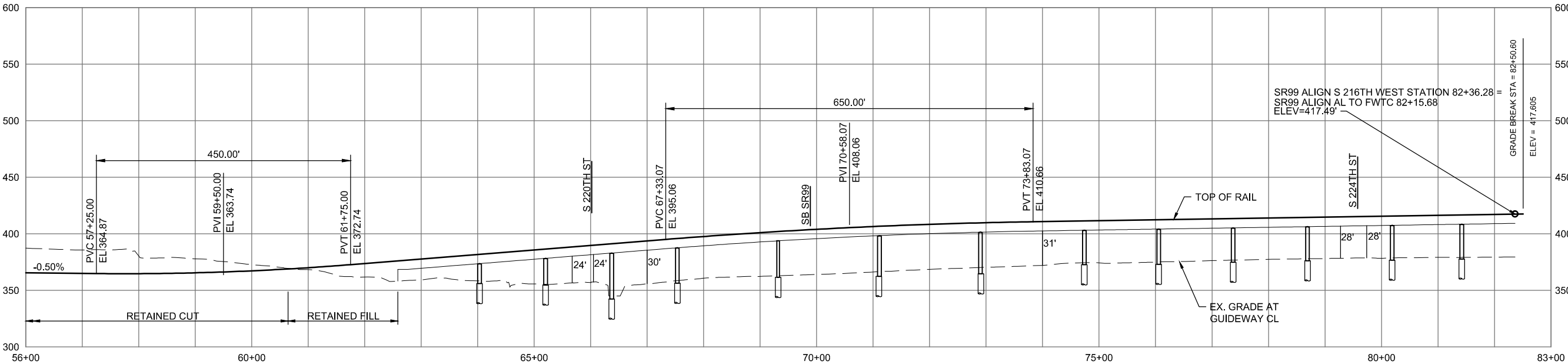
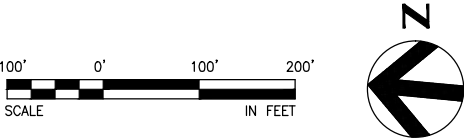
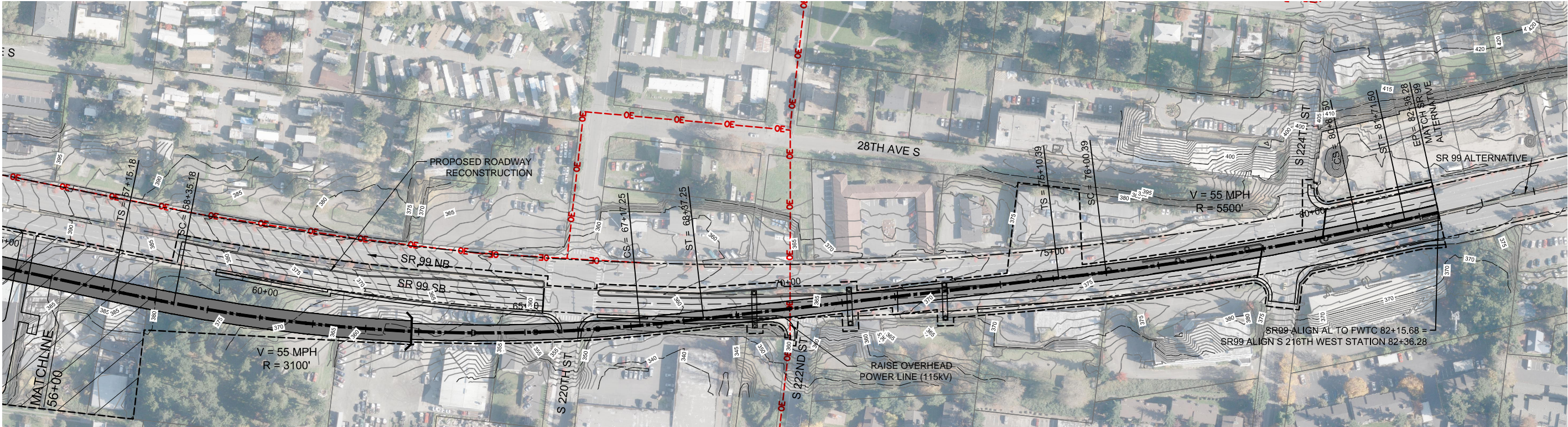


DRAFT EIS - CONCEPTUAL DESIGN
TRACK PLAN & PROFILE ROADWAY RECONSTRUCTION
S 216TH WEST STATION OPTION (POTENTIAL ADDITIONAL STATION)
STA 30+00 TO STA 56+00

APRIL 2015

SR99-B2-PP02
28

SOUND TRANSIT FEDERAL WAY LINK EXTENSION



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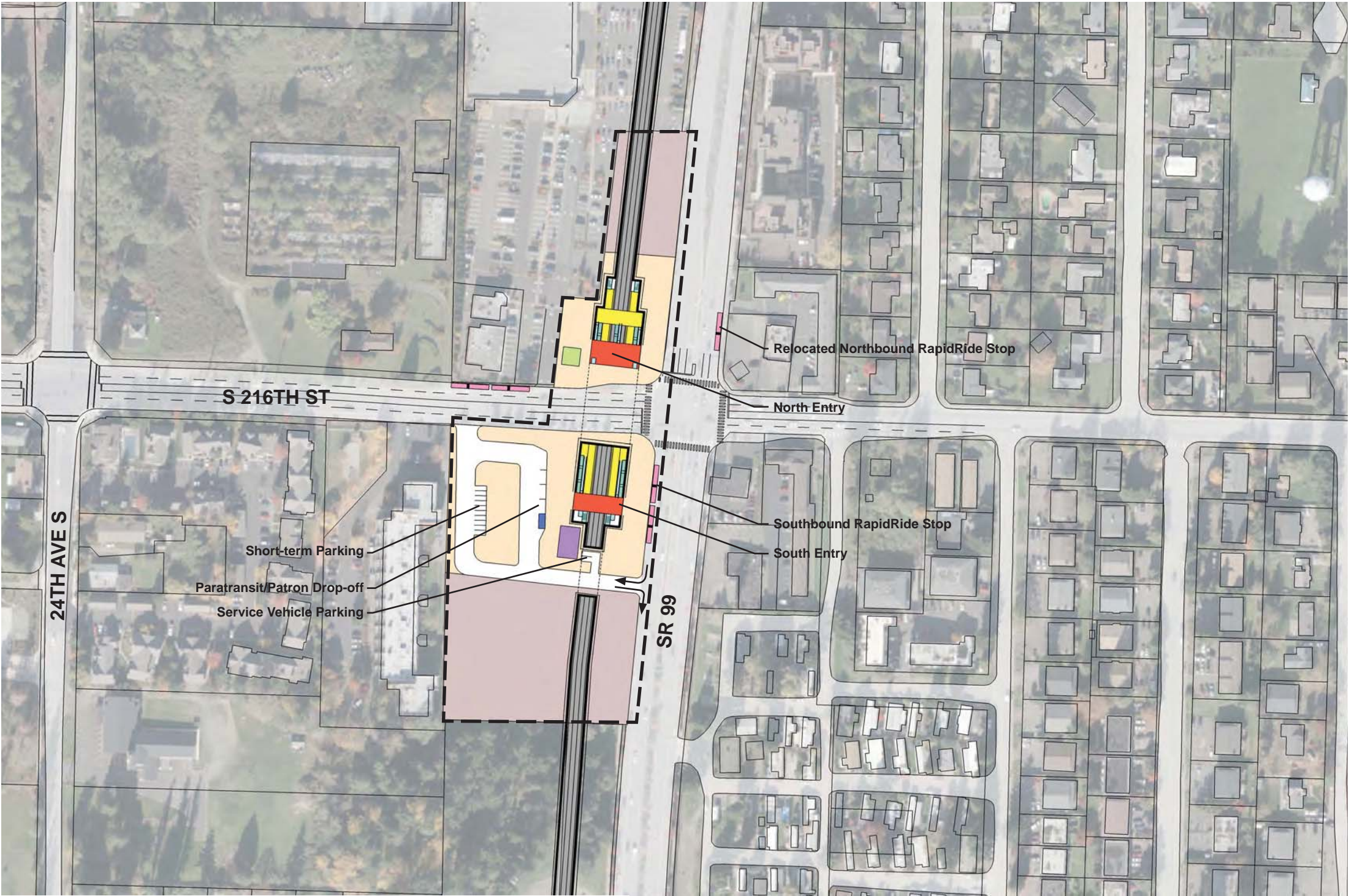
DRAFT EIS - CONCEPTUAL DESIGN
TRACK PLAN & PROFILE AND ROADWAY RECONSTRUCTION
S 216TH WEST STATION OPTION (POTENTIAL ADDITIONAL STATION)
STA 56+00 TO STA 83+36.28

APRIL 2015

SR99-B3-PP03
29

SOUND TRANSIT FEDERAL WAY LINK EXTENSION

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- STATION PLAZA

VERTICAL CIRCULATION

TICKETING / ENTRY HALL

PLATFORM

ANCILLARY SPACES

TPSS
- BUS LAYOVER

BUS PICK-UP / DROP OFF

PARATRANSIT

BICYCLE STORAGE

CONSTRUCTION STAGING

- STATION AREA FOOTPRINT

S

SIGNALIZED INTERSECTION (EXISTING)

S

SIGNALIZED INTERSECTION (PROPOSED)

ASSUMPTIONS:

S 216th West Station Option	
Alternative(s)	SR 99; SR 99 to I-5
Boardings	1,000
Station Configuration	
Terminus / In-Line	In-Line
Station Type	Side Platform - Trench
Platform Width	14'
Tail track	N/A
Crossover	No
TPSS	No
Program	
KC Metro Ancillary Spaces (SF)	N/A
ST Ancillary Spaces (SF)	1,200
Total Ancillary Spaces (SF)	1,200
Vertical Circulation	
# of entrances	2
# of escalators	5
# of staircases (patron)	5
# of elevators	4
# of emergency stairs	4
Bus/ Paratransit Facilities	
Bus bays (KCM)	1 bay southbound at SR 99, two 60' coaches; 1 bay westbound at S 216th, two 60' coaches
Bus bays (ST)	N/A
Rapid Ride	On-street at SR 99
Bus layover (KCM)	N/A
Bus layover (ST)	N/A
Paratransit	1 space
Communications Facility	Tier 2
Parking & Amenities	
Bike storage	900 SF
Patron drop-off	2 spaces
Short-term patron parking	7 to 10 spaces
Staff parking	N/A
Service/emerg. vehicle park.	2 spaces, combined
Signal bungalow / TPSS park.	N/A
Patron parking	N/A

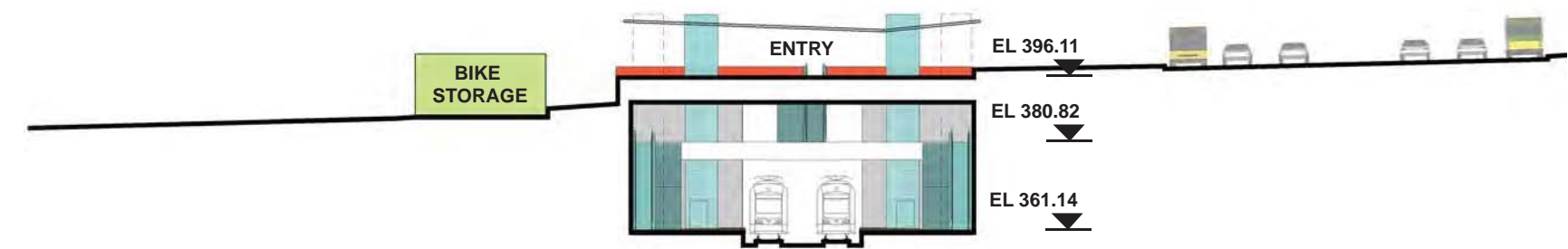


DRAFT EIS - CONCEPTUAL DESIGN
S 216TH WEST STATION OPTION
(POTENTIAL ADDITIONAL STATION)
SITE PLAN

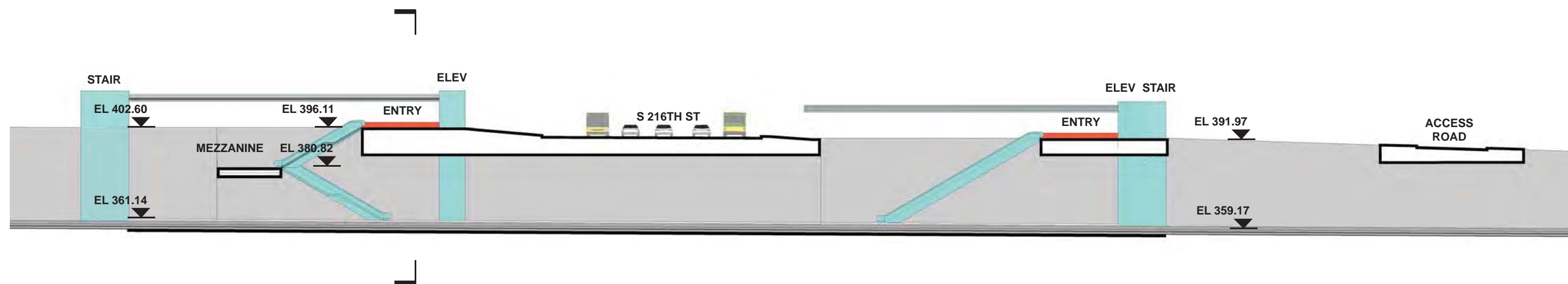
APRIL 2015

FWLE_S99_AP010
30












SOUND TRANSIT FEDERAL WAY LINK EXTENSION

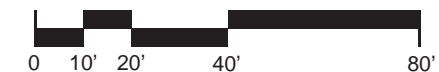


SECTION LOOKING NORTH



SECTION LOOKING EAST

- | | | | |
|---|------------------------|---|------------------------|
|  | STATION PLAZA |  | BUS LAYOVER |
|  | VERTICAL CIRCULATION |  | BUS PICK-UP / DROP OFF |
|  | TICKETING / ENTRY HALL |  | PARATRANSIT |
|  | PLATFORM |  | BICYCLE STORAGE |
|  | ANCILLARY SPACES |  | CONSTRUCTION STAGING |
|  | TPSS | | |



DRAFT EIS - CONCEPTUAL DESIGN
S 216TH WEST STATION OPTION
(POTENTIAL ADDITIONAL STATION)
SECTIONS

APRIL 2015

FWLE_S99_AX010

31

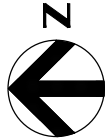
SOUND TRANSIT FEDERAL WAY LINK EXTENSION



SR99 SHEET LAYOUT MATRIX

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A - SR 99 ALTERNATIVE	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
B - S 216TH WEST STATION OPTION (POTENTIAL ADDITIONAL STATION)	X	X	X													
C - S 216TH EAST STATION OPTION (POTENTIAL ADDITIONAL STATION)		X	X													
D - KENT/DES MOINES SR 99 MEDIAN STATION OPTION				X	X	X										
E - KENT/DES MOINES SR 99 EAST STATION OPTION				X	X	X	X									
F - KENT/DES MOINES HC CAMPUS STATION OPTION			X	X	X	X	X									
F - KDM HC CAMPUS OPTION FROM S 216TH WEST STATION OPTION						X	X	X	X	X						
G - S 260TH WEST STATION OPTION (POTENTIAL ADDITIONAL STATION)					X	X	X	X	X							
H - S 260TH EAST STATION OPTION (POTENTIAL ADDITIONAL STATION)							X	X	X	X						
J - S 272ND REDONDO TRENCH STATION OPTION								X	X	X	X	X	X	X		
K - FEDERAL WAY SR 99 STATION OPTION															X	X

I - NOT USED



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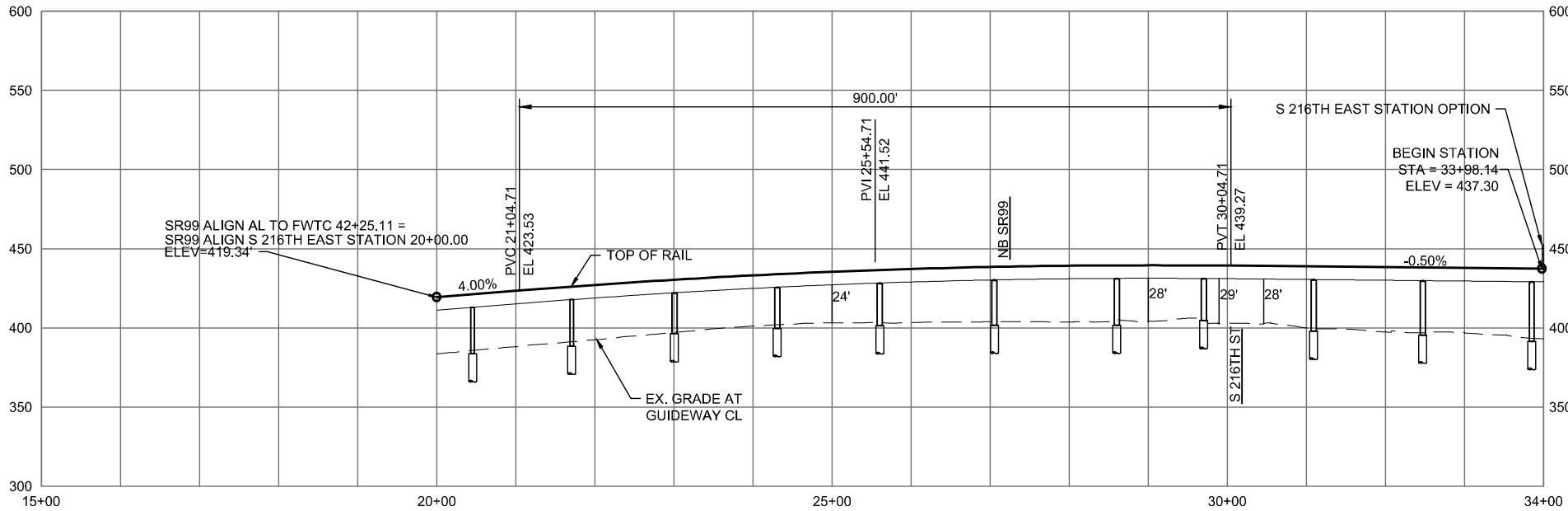
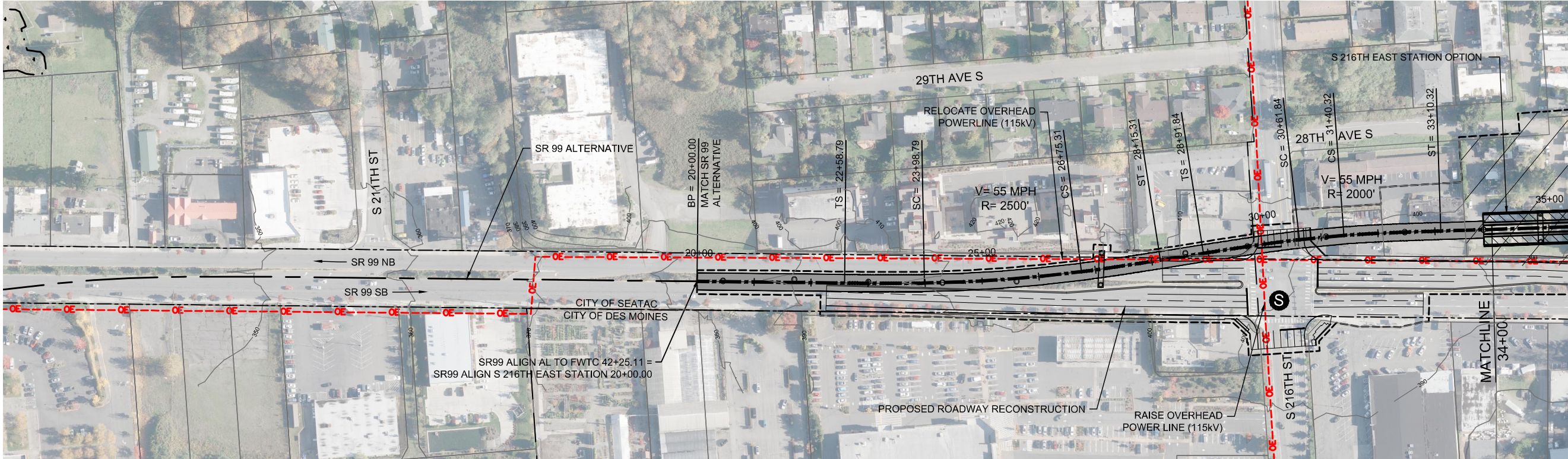


DRAFT EIS - CONCEPTUAL DESIGN
S 216TH EAST STATION OPTION (POTENTIAL ADDITIONAL STATION)
SHEET INDEX KEYMAP

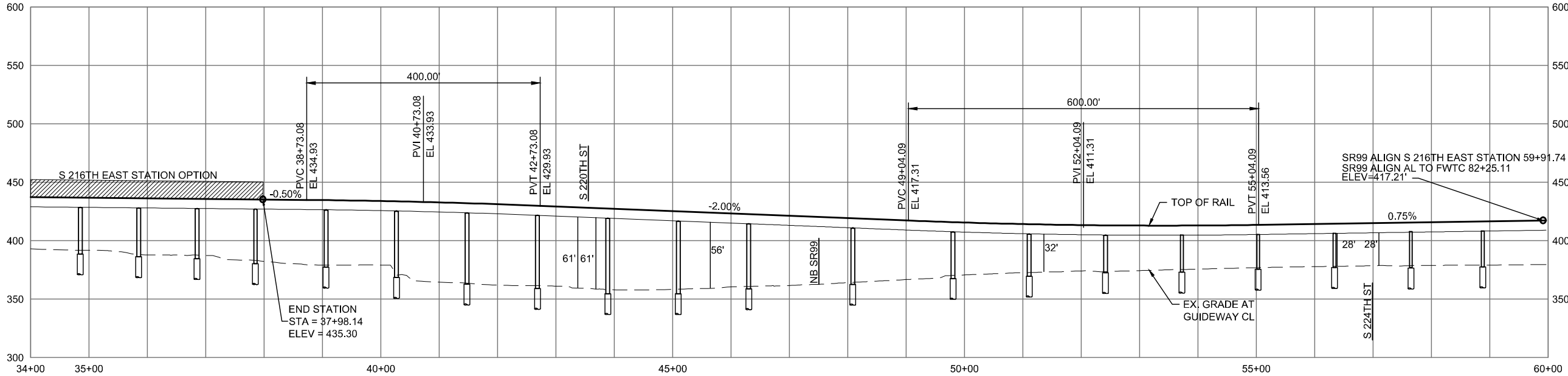
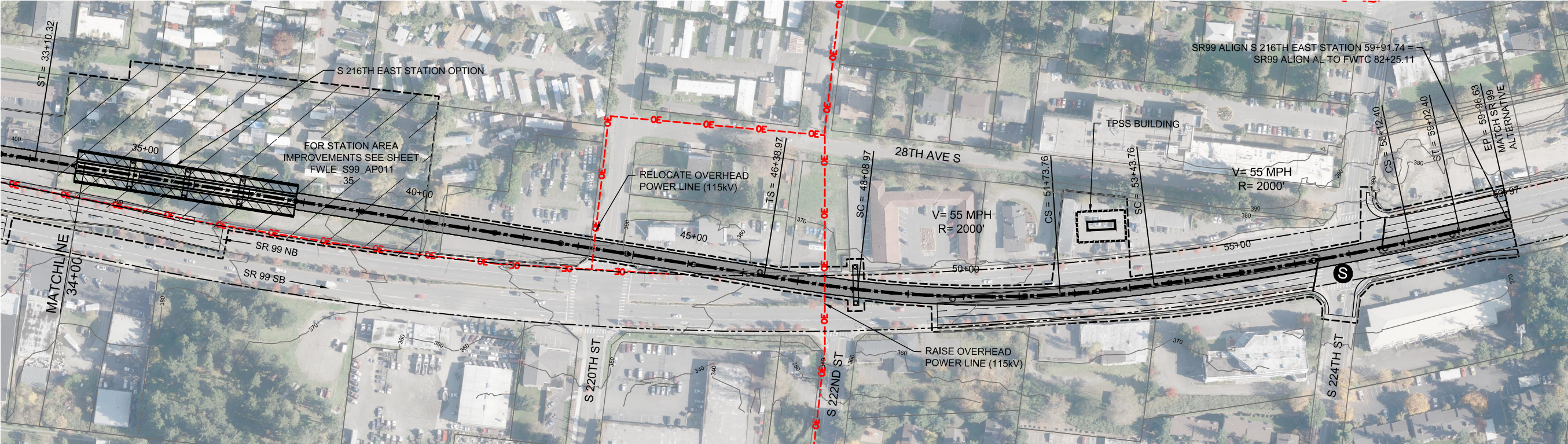
APRIL 2015

SR99-C00-GX02
32

SOUND TRANSIT FEDERAL WAY LINK EXTENSION



SOUND TRANSIT FEDERAL WAY LINK EXTENSION



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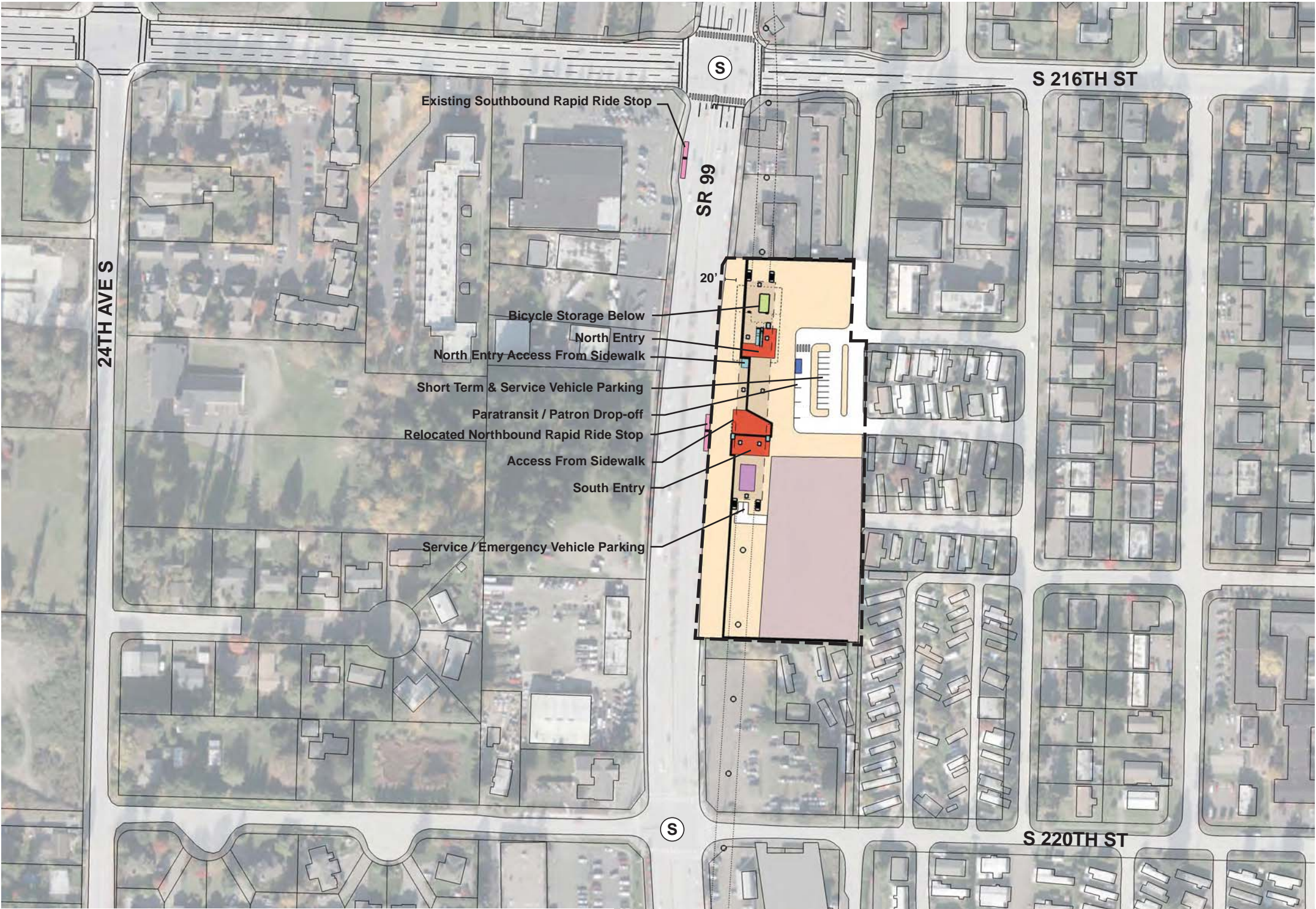


DRAFT EIS - CONCEPTUAL DESIGN
TRACK PLAN & PROFILE AND ROADWAY RECONSTRUCTION
S 216TH EAST STATION OPTION (POTENTIAL ADDITIONAL STATION)
STA 34+00 TO STA 59+91.74

APRIL 2015

SR99-C2-PP03
34

SOUND TRANSIT FEDERAL WAY LINK EXTENSION



- STATION PLAZA

VERTICAL CIRCULATION

TICKETING / ENTRY HALL

PLATFORM

ANCILLARY SPACES

TPSS
- BUS LAYOVER

BUS PICK-UP / DROP OFF

PARATRANSIT

BICYCLE STORAGE

CONSTRUCTION STAGING

- STATION AREA FOOTPRINT

S

SIGNALIZED INTERSECTION (EXISTING)

S

SIGNALIZED INTERSECTION (PROPOSED)

ASSUMPTIONS:

S 216th East Station Option	
Alternative(s)	SR 99; SR 99 to I-5
Boardings	1,000
Station Configuration	
Terminus / In-Line	In-Line
Station Type	Side Platform - Elevated
Platform Width	14'
Tail track	N/A
Crossover	TBD
TPSS	No
Program	
KC Metro Ancillary Spaces (SF)	N/A
ST Ancillary Spaces (SF)	1,200
Total Ancillary Spaces (SF)	1,200
Vertical Circulation	
# of entrances	2
# of escalators	3
# of staircases (patron)	3
# of elevators	5
# of emergency stairs	4
Bus/ Paratransit Facilities	
Bus bays (KCM)	1 bay southbound at SR 99, two 60' coaches; 1 bay westbound at S 216th, two 60' coaches
Bus bays (ST)	N/A
Rapid Ride	On-street at SR 99
Bus layover (KCM)	N/A
Bus layover (ST)	N/A
Paratransit	1 space
Communications Facility	Tier 2
Parking & Amenities	
Bike storage	900 SF
Patron drop-off	2 spaces
Short-term patron parking	7 to 10 spaces
Staff parking	N/A
Service/emerg. vehicle park.	2 spaces, combined
Signal bungalow / TPSS park.	N/A
Patron parking	N/A



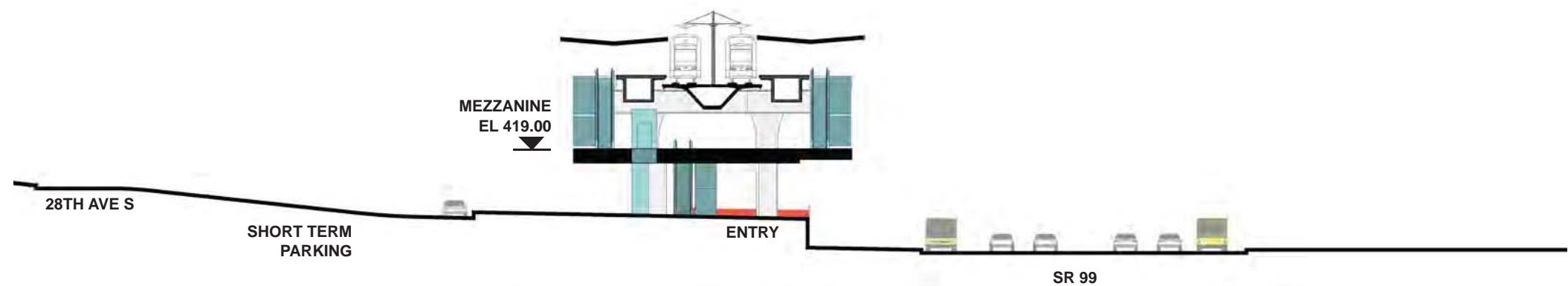
DRAFT EIS - CONCEPTUAL DESIGN
S 216TH EAST STATION OPTION
(POTENTIAL ADDITIONAL STATION)
SITE PLAN



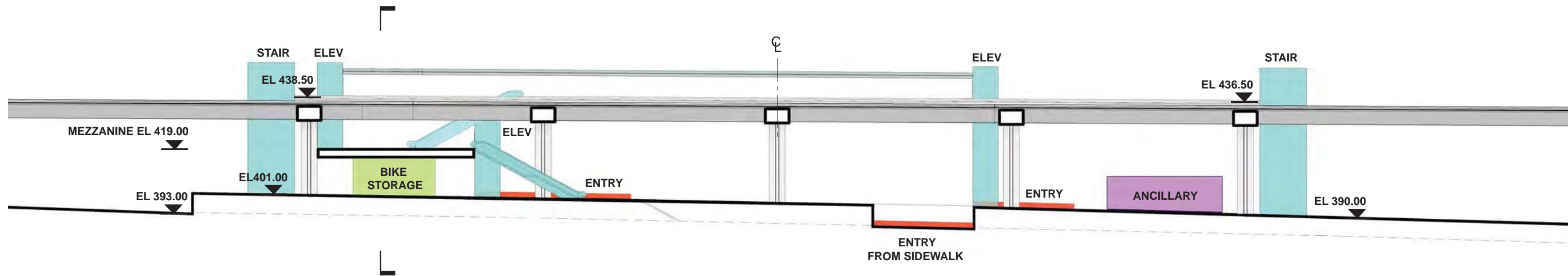
APRIL 2015

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35

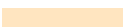




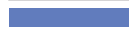





SOUND TRANSIT FEDERAL WAY LINK EXTENSION

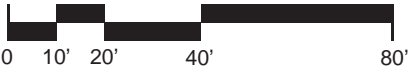


SECTION LOOKING SOUTH



SECTION LOOKING EAST

- | | | | |
|---|------------------------|---|------------------------|
|  | STATION PLAZA |  | BUS LAYOVER |
|  | VERTICAL CIRCULATION |  | BUS PICK-UP / DROP OFF |
|  | TICKETING / ENTRY HALL |  | PARATRANSIT |
|  | PLATFORM |  | BICYCLE STORAGE |
|  | ANCILLARY SPACES |  | CONSTRUCTION STAGING |
|  | TPSS | | |



DRAFT EIS - CONCEPTUAL DESIGN
S 216TH EAST STATION OPTION
(POTENTIAL ADDITIONAL STATION)
SECTION

APRIL 2015

FWLE_S99_AX011
36

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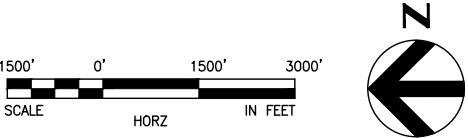


SOUND TRANSIT FEDERAL WAY LINK EXTENSION



SR99 SHEET LAYOUT MATRIX																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A - SR 99 ALTERNATIVE	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
B - S 216TH WEST STATION OPTION (POTENTIAL ADDITIONAL STATION)	X	X	X													
C - S 216TH EAST STATION OPTION (POTENTIAL ADDITIONAL STATION)		X	X													
D - KENT/DES MOINES SR 99 MEDIAN STATION OPTION				X	X	X										
E - KENT/DES MOINES SR 99 EAST STATION OPTION				X	X	X	X									
F - KENT/DES MOINES HC CAMPUS STATION OPTION			X	X	X	X	X									
F - KDM HC CAMPUS OPTION FROM S 216TH WEST STATION OPTION						X	X	X	X	X						
G - S 260TH WEST STATION OPTION (POTENTIAL ADDITIONAL STATION)					X	X	X	X	X							
H - S 260TH EAST STATION OPTION (POTENTIAL ADDITIONAL STATION)							X	X	X	X						
J - S 272ND REDONDO TRENCH STATION OPTION								X	X	X	X	X	X	X		
K - FEDERAL WAY SR 99 STATION OPTION															X	X

I - NOT USED

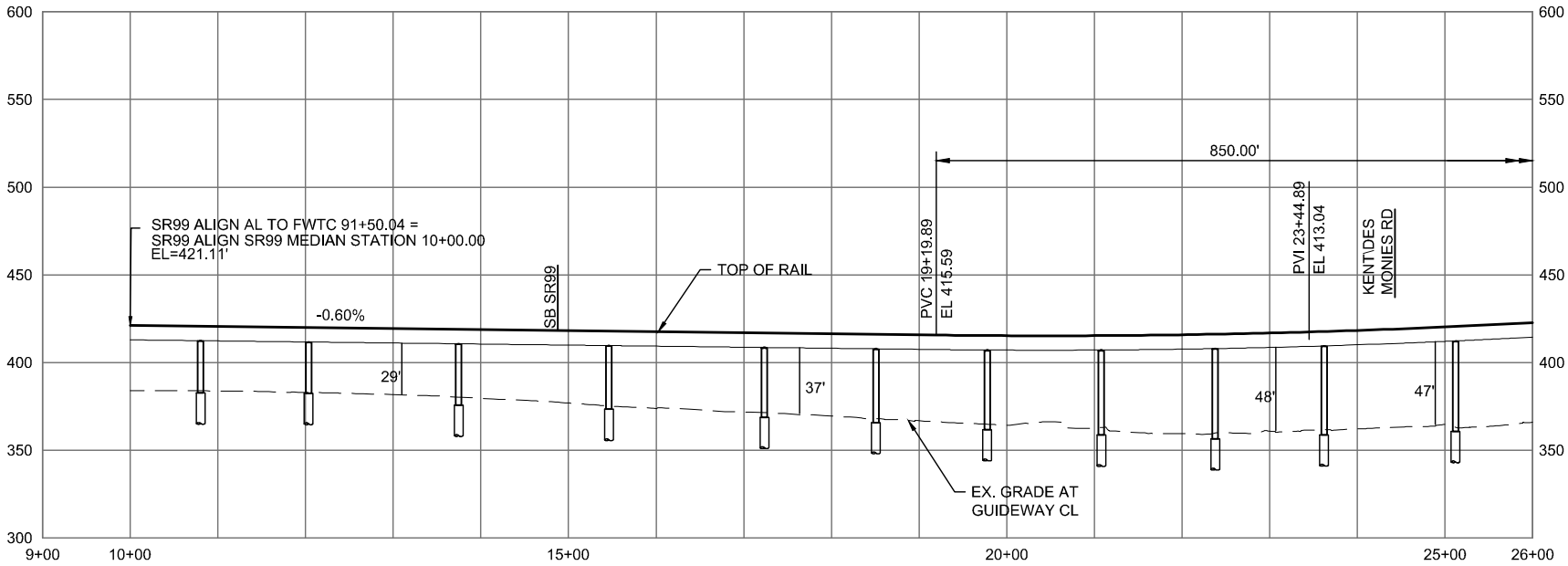
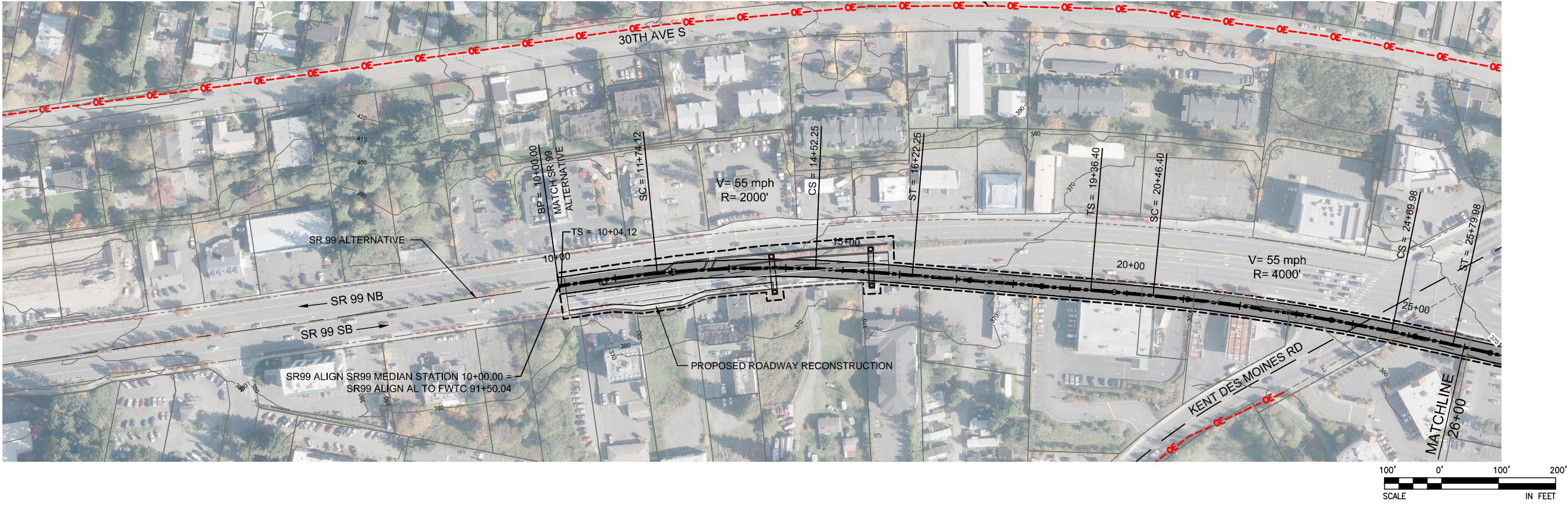


DRAFT EIS - CONCEPTUAL DESIGN
KENT / DES MOINES SR 99 MEDIAN STATION OPTION
SHEET INDEX KEYMAP

APRIL 2015

SR99-D00-GX02
37

SOUND TRANSIT FEDERAL WAY LINK EXTENSION



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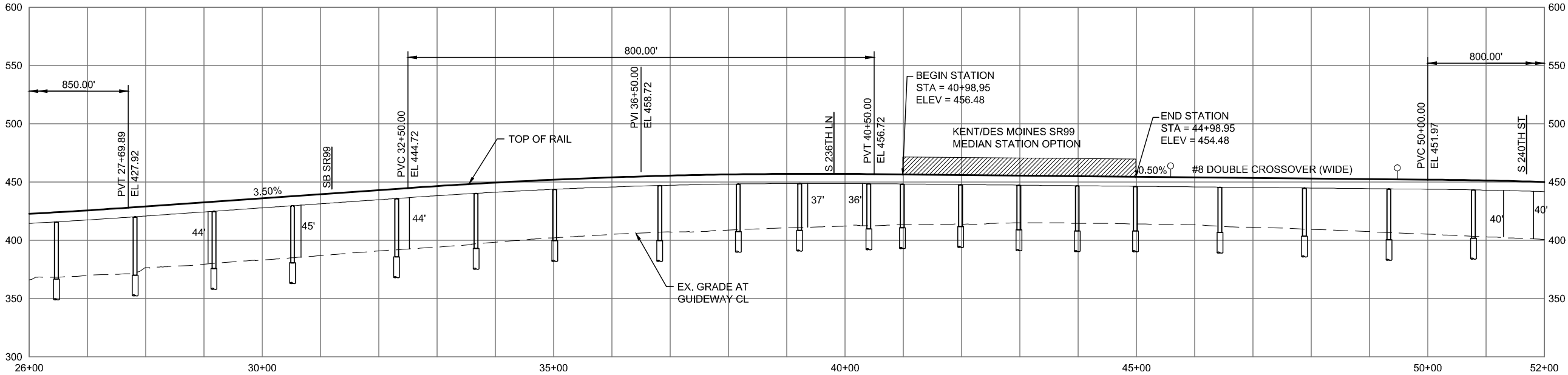
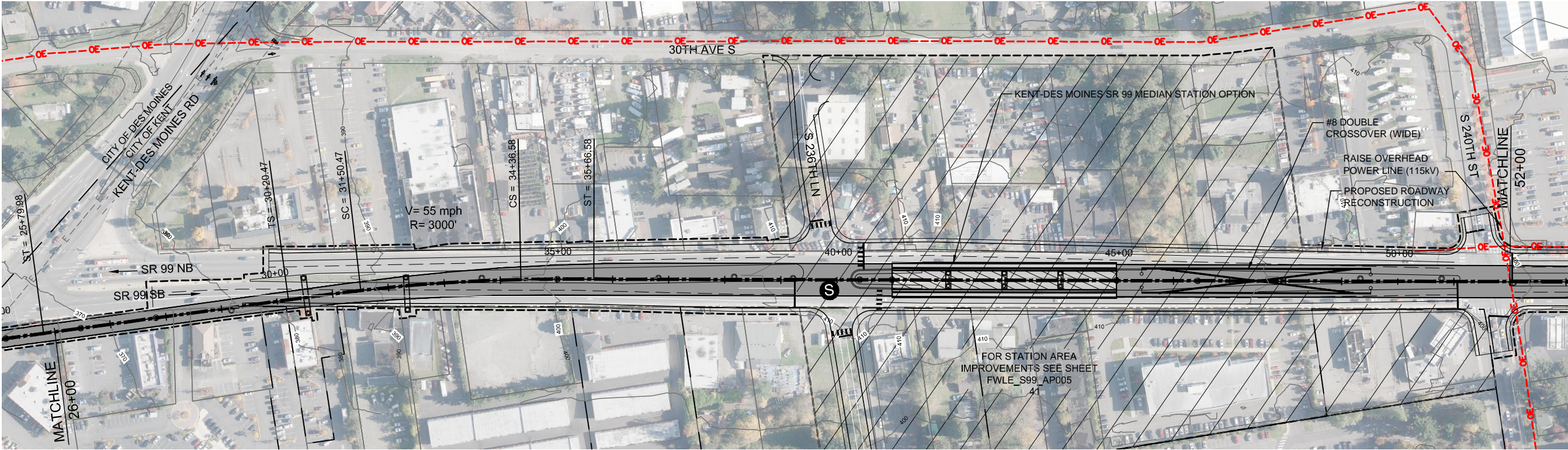


DRAFT EIS - CONCEPTUAL DESIGN
TRACK PLAN AND PROFILE
KENT/DES MOINES SR 99 MEDIAN STATION OPTION
STA 10+00 TO STA 26+00

APRIL 2015

SR99-D1-PP04
38

SOUND TRANSIT FEDERAL WAY LINK EXTENSION



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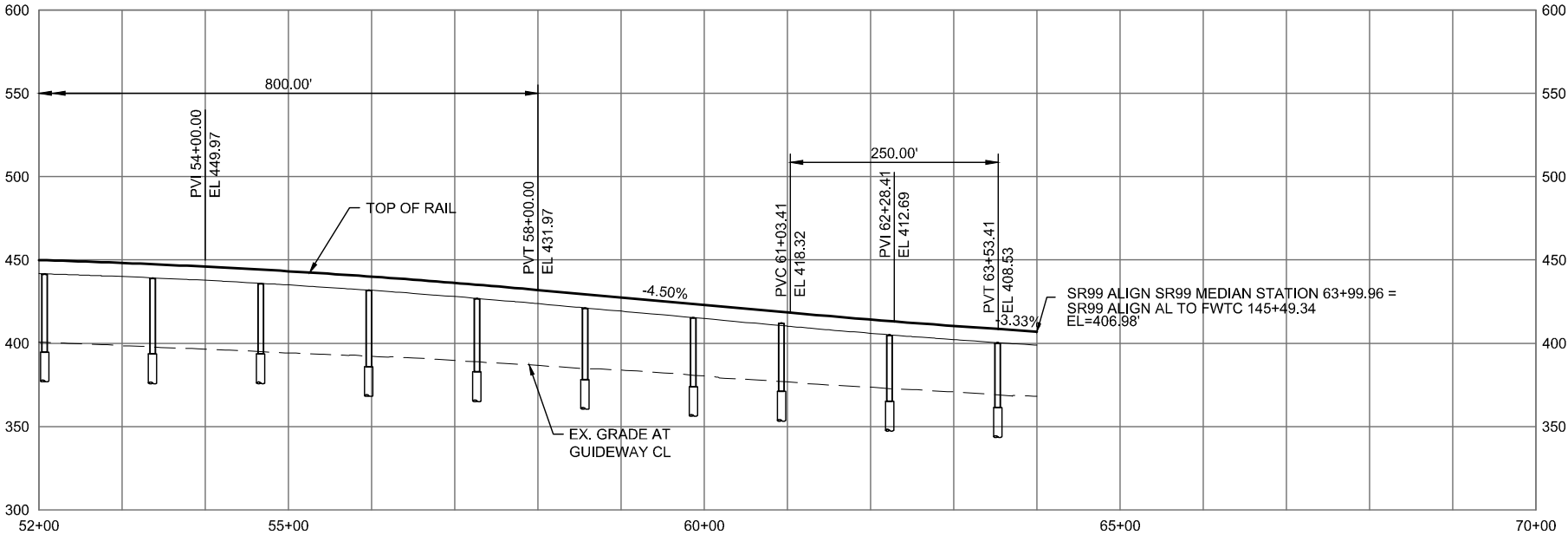
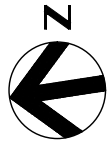
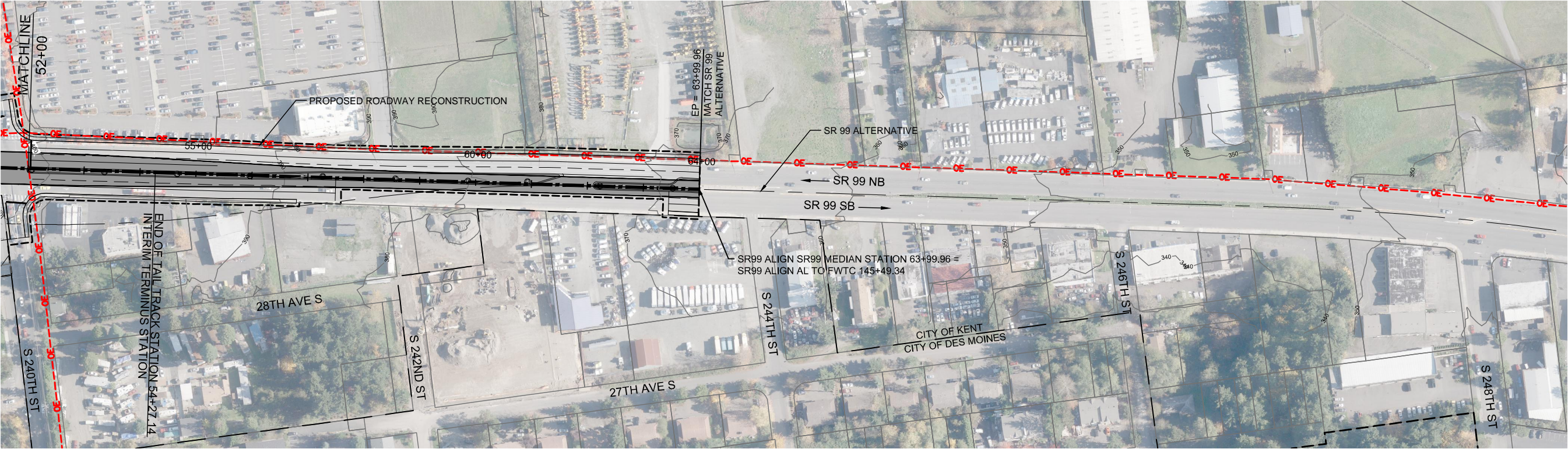


DRAFT EIS - CONCEPTUAL DESIGN
TRACK PLAN AND PROFILE
KENT/DES MOINES SR 99 MEDIAN STATION OPTION
STA 26+00 TO STA 52+00

APRIL 2015

SR99-D2-PP05
39

SOUND TRANSIT FEDERAL WAY LINK EXTENSION



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DRAFT EIS - CONCEPTUAL DESIGN
TRACK PLAN AND PROFILE
KENT/DES MOINES SR 99 MEDIAN STATION OPTION
STA 52+00 TO STA 63+99.96

APRIL 2015

SR99-D3-PP06
40

SOUND TRANSIT FEDERAL WAY LINK EXTENSION



ASSUMPTIONS:

Kent/Des Moines SR 99 Median Station Option	
Alternative(s):	SR 99
Boardings	3,000
Boardings (with 216th Station)	2,500
Boardings (interim terminus)	4,500
Station Configuration	
Terminus / In-Line	Interim Terminus
Station Type	Center Platform - Elevated
Platform Width	34'
Tail track	900'
Crossover	Yes
TPSS	Yes
Program	
KC Metro Ancillary Spaces (SF)	200
ST Ancillary Spaces (SF)	1,800
Total Ancillary Spaces (SF)	2,000
Vertical Circulation	
# of entrances	2
# of escalators	4
# of staircases (patron)	4
# of elevators	2
# of emergency stairs	2
Bus/ Paratransit Facilities	
Bus bays (KCM)	2 bays, one 60' coach each
Bus bays (ST)	1 bay, two 60' coaches
Rapid Ride	On-street at SR 99
Bus layover (KCM)	2 bays, two 60' coaches each
Bus layover (ST)	1 bay, two 60' coaches
Paratransit	1 permanent, 1 interim
Communications Facility	Tier 2
Parking & Amenities	
Bike storage	900 SF
Patron drop-off	6 spaces
Short-term parking	7 to 10 spaces
Staff parking	4 spaces
Service/emerg. vehicle park.	2 spaces, separate lot
Signal bungalow / TPSS park.	2 spaces, dedicated
Long-term patron parking	500 spaces (structure)
Temporary patron parking*	500 spaces (surface)
Total proposed patron parking*	1000 Spaces

*Only required for interim terminus condition

- STATION PLAZA

VERTICAL CIRCULATION

TICKETING / ENTRY HALL

PLATFORM

ANCILLARY SPACES

TPSS

BUS LAYOVER

BUS PICK-UP / DROP OFF

PARATRANSIT

BICYCLE STORAGE

CONSTRUCTION STAGING / PARKING

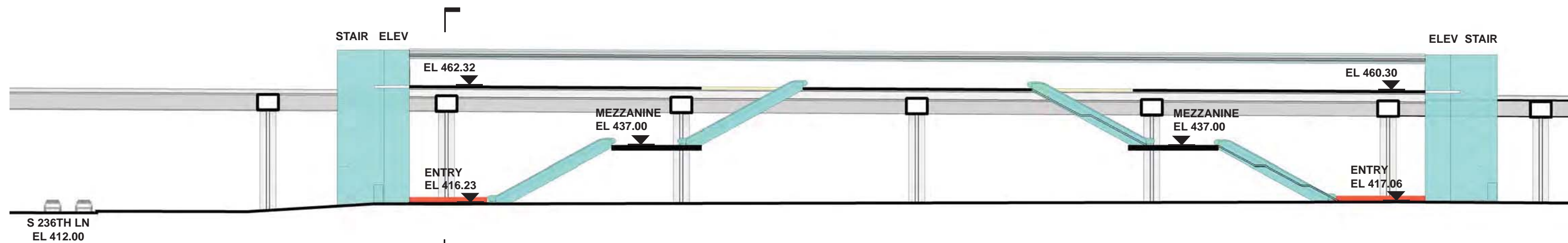
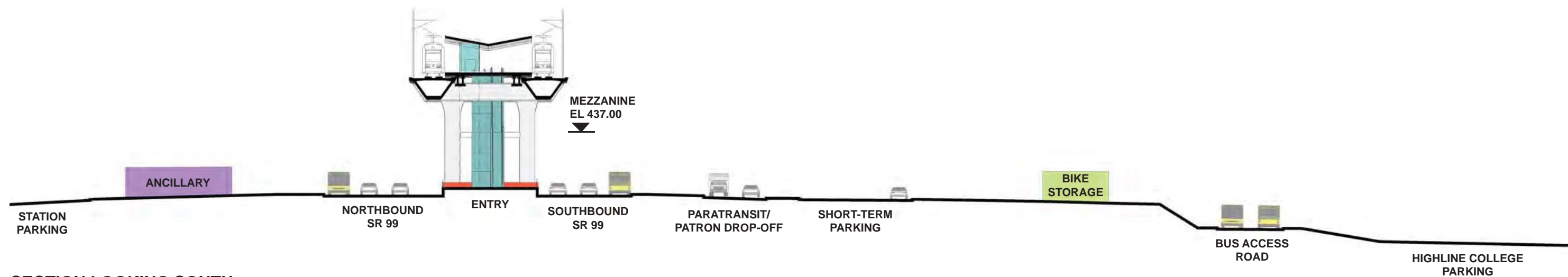
STATION AREA FOOTPRINT

SIGNALIZED INTERSECTION (EXISTING)

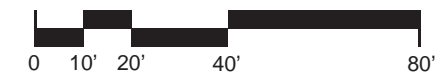
SIGNALIZED INTERSECTION (PROPOSED)



SOUND TRANSIT FEDERAL WAY LINK EXTENSION



- | | |
|------------------------|--------------------------------|
| STATION PLAZA | BUS LAYOVER |
| VERTICAL CIRCULATION | BUS PICK-UP / DROP OFF |
| TICKETING / ENTRY HALL | PARATRANSIT |
| PLATFORM | BICYCLE STORAGE |
| ANCILLARY SPACES | CONSTRUCTION STAGING / PARKING |
| TPSS | |



DRAFT EIS - CONCEPTUAL DESIGN
KENT/DES MOINES SR 99 MEDIAN STATION OPTION
SECTIONS

APRIL 2015
FWLE_S99_AX005
42

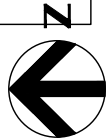
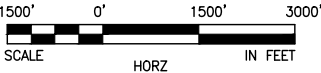
SOUND TRANSIT FEDERAL WAY LINK EXTENSION



SR99 SHEET LAYOUT MATRIX

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A - SR 99 ALTERNATIVE	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
B - S 216TH WEST STATION OPTION (POTENTIAL ADDITIONAL STATION)	X	X	X													
C - S 216TH EAST STATION OPTION (POTENTIAL ADDITIONAL STATION)		X	X													
D - KENT/DES MOINES SR 99 MEDIAN STATION OPTION				X	X	X										
E - KENT/DES MOINES SR 99 EAST STATION OPTION				X	X	X	X									
F - KENT/DES MOINES HC CAMPUS STATION OPTION			X	X	X	X	X									
F - KDM HC CAMPUS OPTION FROM S 216TH WEST STATION OPTION						X	X	X	X	X						
G - S 260TH WEST STATION OPTION (POTENTIAL ADDITIONAL STATION)					X	X	X	X	X							
H - S 260TH EAST STATION OPTION (POTENTIAL ADDITIONAL STATION)							X	X	X	X						
J - S 272ND REDONDO TRENCH STATION OPTION								X	X	X	X	X	X	X		
K - FEDERAL WAY SR 99 STATION OPTION															X	X

I - NOT USED

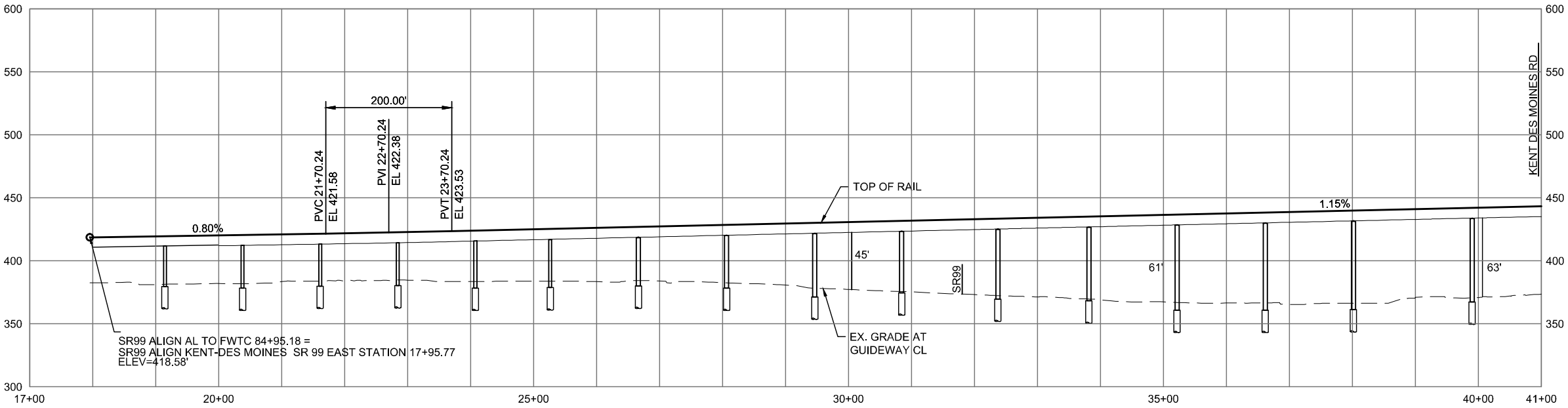
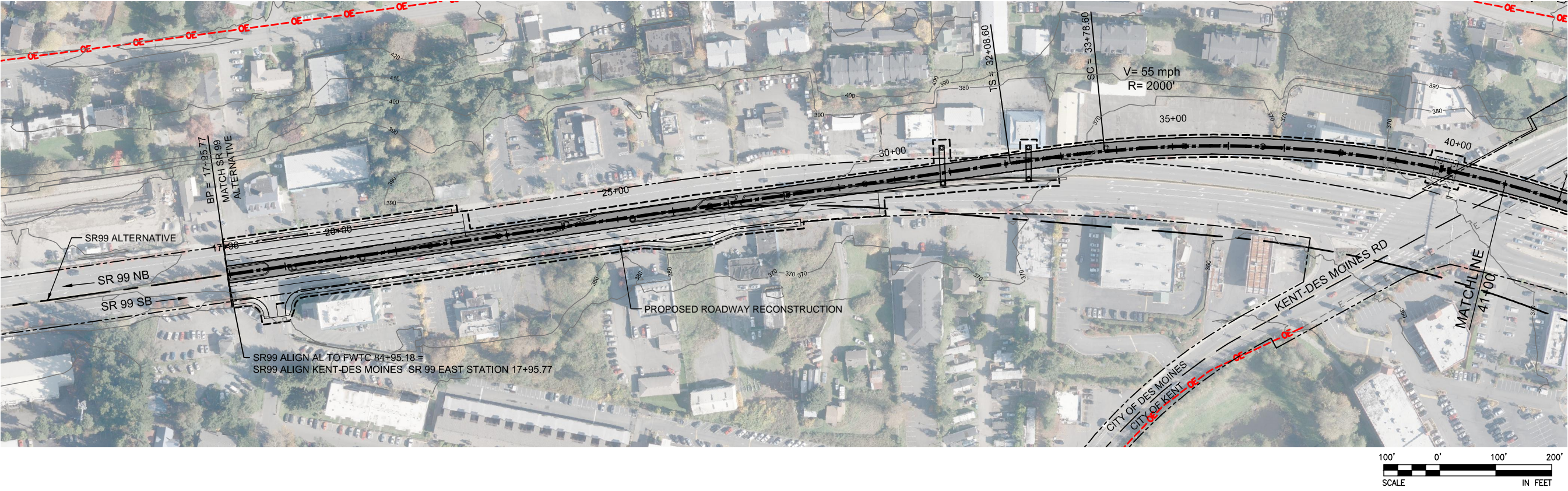


DRAFT EIS - CONCEPTUAL DESIGN
KENT / DES MOINES SR 99 EAST STATION OPTION
SHEET INDEX KEYMAP

APRIL 2015

SR99-E00-GX02
43

SOUND TRANSIT FEDERAL WAY LINK EXTENSION



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DRAFT EIS - CONCEPTUAL DESIGN
TRACK PLAN & PROFILE AND ROADWAY RECONSTRUCTION
KENT/DES MOINES SR 99 EAST STATION OPTION
STA 17+95.77 TO STA 41+00

APRIL 2015

SR99-E1-PP04
44